ORDER NO.DSD0301002C1

B13

Service Manua

DVD Video Recorder

DMR-E50P / DMR-E50PC / DMR-E50PL

Colour

(K).....Black Type

(S).....Silver Type



SPECIFICATIONS

Specifications

AC120 V, 60 Hz Power supply:

26 W Power consumption:

Recording system: **DVD** video recording

standards (DVD-RAM), DVD video standards (DVD-

R)

Optical pick-up: System with 1 lens, 2

integration units (662 nm wavelength for DVDs, 790 nm wavelength for CDs)

Recordable discs: 12 cm 4.7 GB DVD-RAM

discs

12 cm 9.4 GB DVD-RAM

discs

8 cm 2.8 GB DVD-RAM discs 12 cm 4.7 GB DVD-R discs (for General Ver. 2.0) 8 cm 1.4 GB DVD-R discs (for General Ver. 2.0)

Recording time: Max. 6 hours

(using 4.7 GB disc) XP: 60 minutes SP: 120 minutes LP: 240 minutes EP: 360 minutes

Region No.1 Region number:

Discs played: 12 cm 4.7 GB DVD-RAM

discs

12 cm 9.4 GB DVD-RAM

discs

8 cm 2.8 GB DVD-RAM discs 12 cm 4.7 GB DVD-R discs (for General Ver. 2.0) 8 cm 1.4 GB DVD-R discs (for General Ver. 2.0) DVD-VIDEOdiscs CD-Audio discs (CD-DA)

Video CD discs CD-R/ CD-RW discs (CD-DA, Video CD, MP3 formatted discs)

Video system

TV system: NTSC system, 525 lines, 60

fields

Recording system: MPEG2 (Hybrid VBR)

Input: LINE (pin jack), 1.0 Vp-p; 75

Ω

S connector Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω

Output: LINE (pin jack), 1.0 Vp-p; 75

Ω

S connector Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω

Component video output (480p/ Y: 1.0 Vp-p; 75 Ω

480i):

PB: 0.7 Vp-p; 75 Ω

PR: 0.7 Vp-p; 75 Ω

D-connector output: Not provided

Antenna reception input: TV Channel: 2ch-69ch, 75 Ω

CATV Channel: 1ch-125ch,

75 Ω

RF converter output: Not provided

Audio system

Recording system: Dolby Digital (XP/SP/LP/EP)

Input: LINE (pin jack)

Reference input: 309 mVrms FS: 2 Vrms (1 kHz, 0 dB) Input impedance: 47 k Ω

Output: LINE (pin jack)

Reference output: 309

mVrms

FS: 2 Vrms (1 kHz, 0 dB) Output impedance: 1 k Ω (Load impedance: 10 k Ω)

Number of channels: Recording: 2 channels

Playback: 2 channels

Other input/output connectors: Digital audio optical output

connector

Dimensions: Approx.

430 (W)×79 (H)×283 (D) mm [Approx. 16¹⁵/ 16"(W)×3¹/ 8"

(H)×11¹/₆₄" (D)]

(excludingprotrusions)

Mass: Approx. 3.7 kg (8.14 lbs)
Operating temperature range: 5°C-40°C (41°F-104°F)

Operating humidity range: 10%80% RH (no

condensation)

Clock unit: Quartz-controlled 12-hour

digital display

LASER Specification
Class I LASER Product

Wave length: 775-815 nm 655-666 nm

Laser power: No hazardous radiation is emitted with the safety

protection.

Power consumption in standby mode:

approx. 3.2 W

Notes:

Mass and dimensions are approximate.

Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1772) is listed separately. Please refer to ORDER NO. RAM0301002C0.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. SAFETY PRECAUTIONS

1.1. GENERAL GUIDELINES

- 1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- 3. After servicing, make the following leakage current checks to

prevent the customer from being exposed to shock hazards.

1.1.1. LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

Hot-Check Circuit

AC VOLTMETER

0.15µF

APPLIANCES

EXPOSED

METAL PARTS 1500Ω 10W

COLD

WATER PIPE

(EARTH GROUND)

1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1.)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current mu3st not exceed 1/2 milliamp. In case a measurement is outside of the limits

specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

2. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to

the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

■ IMPORTANT SAFETY NOTICE ■

There are special components used in this equipment which are imporant for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens. Wave length: 775-815 nm/655-666 nm

Maximum output radiation power from pickup: 100 µ W/VDF

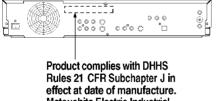
Laser radiation from the pickup lens is safety level but be sure the followings:

- 1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
- 2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
- 3. Do not look at the focus lens using optical instruments.
- 4. Recommend not to look at pickup lens for a long time.

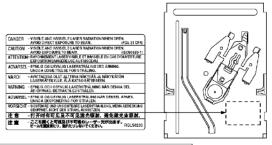
Dieses Produkt enthält eine Laserdiode Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit. Wellenlänge: 775-815 nm/655-666 nm Maximale Strahlungsleistung der Lasereinheit: 100 μ

W/VDF Die Strahlungan der Lasereinheit ungefährlich, wenn

- folgende Punkte beachtet werden: 1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
- 2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen
- Nicht mit optischen Instrumenten in die Fokussierlines blicken
- 4. Nicht über längere Zeit in die Fokussierlines blicken.



Matsushita Electric Industrial Co., Ltd. Kadoma, Osaka, Japan



CAUTIONI THIS PRODUCT UTILIZES A LASER USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE

4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.

2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.

(As shown in 15.2.1. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2032-1GUF Manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacture.

They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose.

It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion. Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

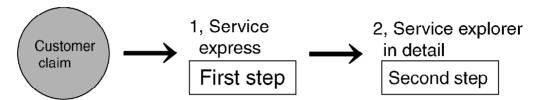
P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. Service Explorer

The Service Explorer provides information about all possible causes based on the symptoms and gives step by step instructions making parts. It consists of two parts, based on applications: the first is the "Service Explorer Express" and the second is "Service Explorer in Detail".



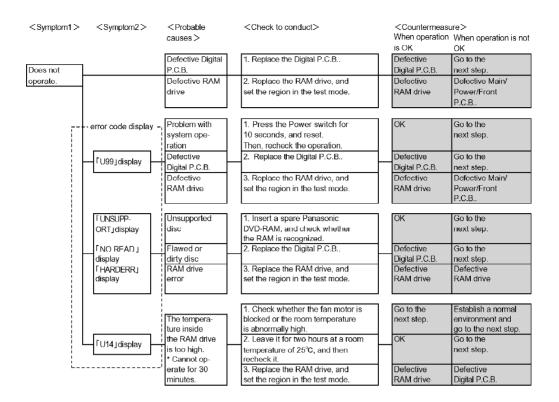
- 1. For details about the service / test modesetting mentioned in the description, refer to the "List of various modes".
 - Service mode setting: While the power is off, press TIME SLIP, STOP, and OPEN / CLOSE simultaneously for five seconds.
 - Process mode 1 setting: While the power is off, press SKIP(R), TIME SLIP, and OPEN / CLOSE simultaneously for five seconds.
- 2. For disassembly and replacement procedures, refer to the "Assembling and Disassemling".

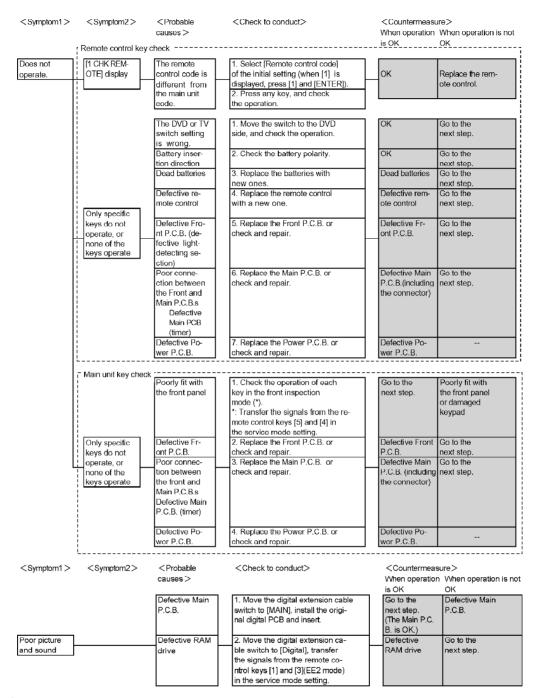
6.1. Service Explorer Express

The following steps allow you to check each block separately (Digital P.C.B., RAM drive, Main / Power Supply / Front P.C.B.).

Items needed: RAM drive, Digital P.C.B., Digital extension cable, Remote control.

Conditions: Nothing special.



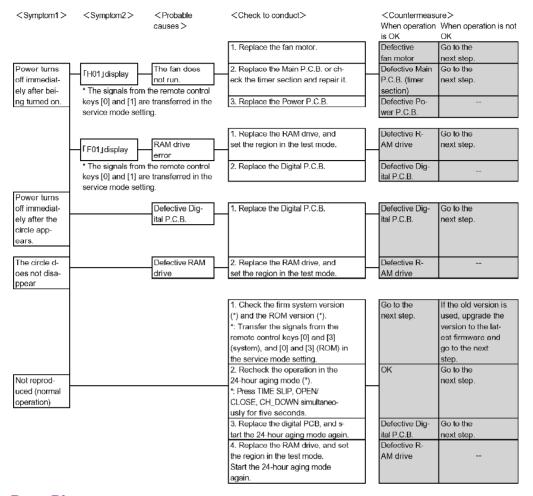


6.2. Service Explorer in Detail

6.2.1. Does not operate

items needed: RAM drive, digital P.C.B., remote control.

Conditions: Nothing special.



6.2.2. Poor Pictures

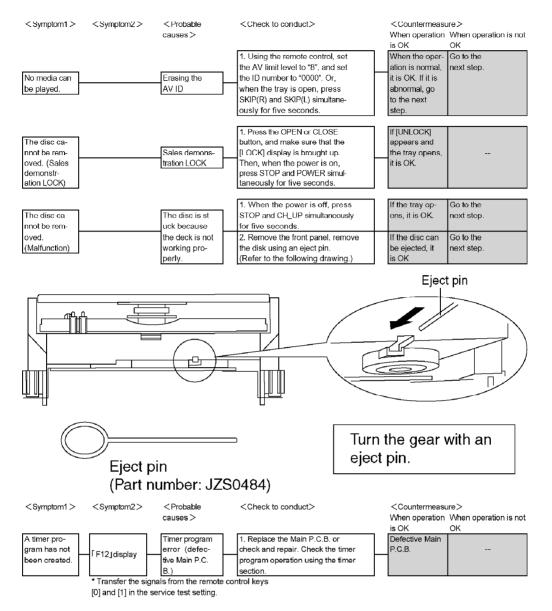
Items needed: RAM drive, Digital P.C.B., RF cable, AV cable.

Conditions: Check with TU IN-AV OUT(EE). When recording or playback is partially needed, follow the instructions.

<symptom1></symptom1>	<symptom2></symptom2>	< Probable	<check conduct="" to=""></check>	< Countermeas	iro >
< Gympion /	<0ympuniz/	causes>	Check to conduct/		When operation is not
		Causes /			OK
		The signal is	4.0	is OK	
		The signal is	1.Confirm wheather connecting	Go to the	Connect to reco-
		too weak.	through VCR.	next step.	rder directly
		The tuner si-	2. Reconnect the RF cable to	Go to the	Poor signal
		gnal reception	TV, and check the picture and	next step.	reception
		is too weak.	sound.		
		The RF cable	3. Replace the RF cable, and	Defective RF	Go to the
Noise in the		is badly da-	check.	cable	next step.
picture and		maged.			·
sound.		The AV cable	4. Replace the AV cable, and	Defective AV	Go to the
No picture		is badly da-	check.	cable	next step.
color.		maged.	CHECK.	Cable	next step.
COIOI.			5 Mayo the digital systematics achie	Co to the me	Defective Main
		Defective Main	5. Move the digital extension cable	Go to the ne-	
		P.C.B	switch to [MAIN], install the orig-	xt step. (The M-	P.C.B.
			inal digital PCB and insert.	ain PCB is OK.)	
		Defective Di-	Replace the Digital P.C.B	Defective Dig-	
		gital P.C.B		ital P.C.B.	
		Defective RF	1. Replace the RF cable, and	Defective RF	Go to the
		cable	check.	cable	next step.
		Defective AV	Replace the AV cable, and		Go to the
D				Defective AV	
No picture		cable	check.	cable	next step.
or sound is		Defective Main	Move the digital extension cable	Go to the ne-	Defective Main
output.		P.C.B.	switch to [MAIN], install the orig-	xt step. (The M-	P.C.B.
			inal digital PCB and insert.	ain PCB is OK.)	
		Defective Di-	4. Replace the Digital P.C.B	Defective Dig-	
		gital P.C.B	, ,	ital P.C.B.	
		9.4			
Picture and		Poor turner si-	Select a different broadcast	Poor signal	Go to the
sound are				=	
		gnal reception.	channel, and check.	reception	next step.
not synchr-		Defective Di-	2. Replace the Digital P.C.B	Defective Dig-	
onized		gital P.C.B		ital P.C.B.	
		4D 1 11	70L LL LLS		
<symptom1></symptom1>	<symptom2></symptom2>	< Probable	<check conduct="" to=""></check>	<countermeas< td=""><td></td></countermeas<>	
		causes>		When operation	When operation is not
				is OK	OK
			Replace the RAM drive,	(Auto recording	Go to the
			and set the region in the test	and playback)	next step.
			mode.	Defective R-	'
		Defective RAM	mode.	AM drive	
Block noise			2. Replace the Digital P.C.B	(Auto recording	
		drive and Digital	2. Replace the Digital F.C.b	-	
		P.C.B		and playback)	
				Defective Dig-	
				ital P.C.B.	
			1. Check the firm system version	Go to the	If the old version is
			(*) and the ROM version (*).	next step.	used, upgrade the
			*: Transfer the signals from the	oxt otop.	version to the la-
			-		
			remote control keys [0] and [3]		test firmware and
			(system), and [0] and [3] (ROM) in		go to the next step.
			the service mode setting.		
			2. Recheck the operation in the	OK	Go to the
Not repro-			24-hour aging mode (*).		next step.
duced (norm-			*: Press TIME SLIP, OPEN/		
al operation)			CLOSE, CH_DOWN simultaneo-		
a. speradorij			usly for five seconds.		
			Replace the Digital PCB, and	Defective Dig-	Go to the
			1 ' "	_	
			start the 24-hour aging mode	ital P.C.B.	next step.
			again.		
			4. Replace the RAM drive, and	Defective R-	
			set the region in the test mode.	AM drive	
			Start the 24-hour aging mode		
			again.		
			_ ~		

6.2.3. Other

Items needed: Digital P.C.B., HDD. Conditions: Nothing special.



7. Standard Inspection Specifications after Making Repairs

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	Turn on the power.	The Panasonic RAM disc should be recog
2	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the pict sound or operation.
3	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the pict sound or operation.
4	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the pict sound or operation.
5	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appears FL displays.
6	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [FACT INIT] appears in the display. After checking it, turn the power off.
7	To replace the RAM drive, reset all the information (including the laser time) in the process mode 1 setting. *The laser time is the total time that DVDs or CDs have been played or recorded.lt is recorded on the Digital P.C.B	Maku sure that [TEST L1] appears in the F display. After checking it, turn the power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

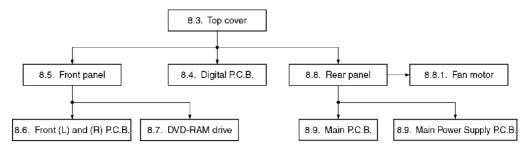
Item	Contents	Item	Contents	Check
	Block noise		Distorted sound	
	Crosscut noise		noise (static, background noise, etc.)	
	Dot noise		The sound level is too low.	
Picture	Picture disruption	Sound	The sound level is too high.	
	Not bright enough		The sound level changes.	
	Too bright			
	Flickering color			
	Color fading			

8. Assembling and Disassembling

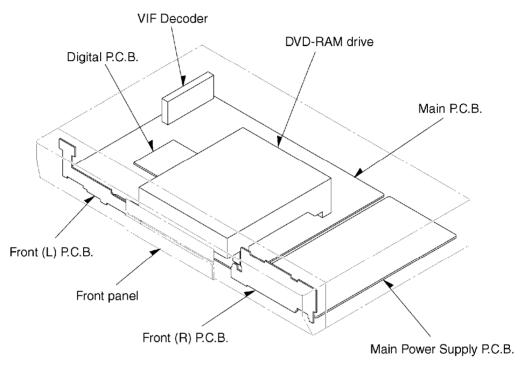
8.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.

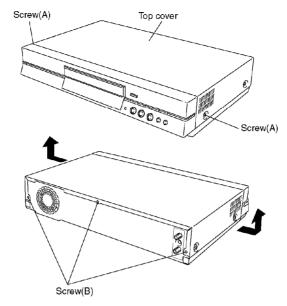


8.2. P.C.B. Positions



8.3. The Top Cover

- 1. Remove the 2 screws (A) and 3 screws (B).
- 2. Open the both ends at the front side of the Top cover a bit and lift the Top cover in the direction of the arrows.

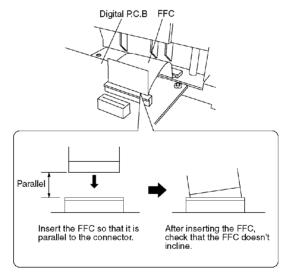


8.4. The Digital P.C.B.

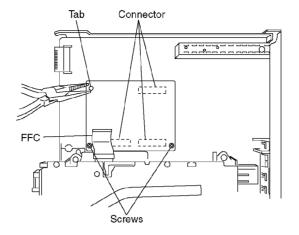
1. Remove the FFC.

CAUTION:

When replacing Digital P.C.B., pay attention as below.

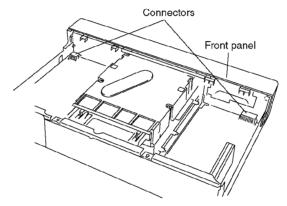


- 2. Remove the 2 screws.
- 3. Pinch the tab with the pliers to pull out the 3 Connectors and Digital P.C.B.

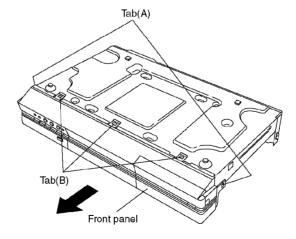


8.5. The Front panel

1. Remove the 2 connectors.

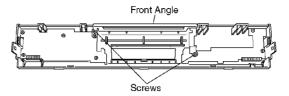


- 2. Remove the 2 tab (A) and 3 tab (B) in this order. (The tab (A) and the tab (B) should be removed at the same time, respectively.)
- 3. Move the front panel to your side slowly and remove it.

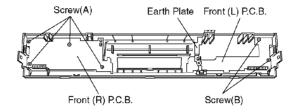


8.6. The Front (L) and (R) P.C.B.

1. Remove the 2 screws and remove the Front Angle.

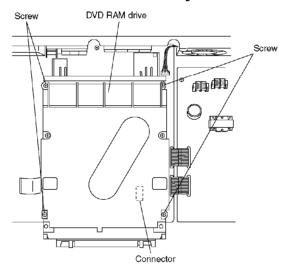


- 2. Remove the 4 screws (A) and remove the Front (R) P.C.B.
- 3. Remove the 2 screws (B) with Earth plate and remove the Front (L) P.C.B.



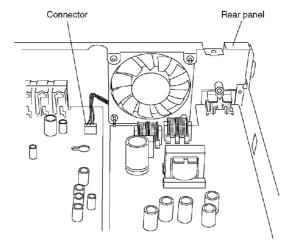
8.7. The DVD-RAM Drive

- 1. Remove the 4 screws.
- 2. Pull out the DVD-RAM Drive vertically and remove the connector.

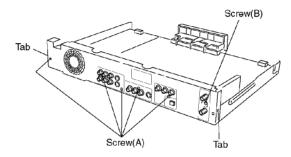


8.8. The Rear panel

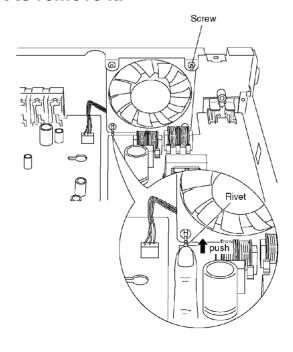
1. Remove the Fan Motor connector.



- 2. Remove the 5 screws (A) and a screw (B).
- 3. Remove the 2 tabs and remove the Rear panel.

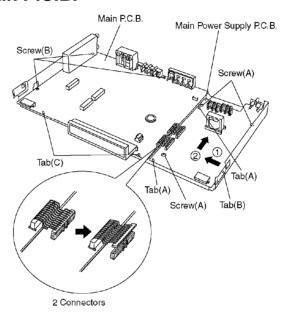


- 8.8.1. In case of removing Fan motor from Rear panel
- 1. Remove a screws.
- 2. Push tip of rivet to remove it.



8.9. The Main Power Supply P.C.B. and Main P.C.B.

- 1. Remove the 2 connectors.
- 2. Remove the 3 screws (A) and 2 tab (A).
- 3. Remove the Main Power Supply P.C.B and tab (B) , pull out it in the direction of the arrow. 1 to 2.
- 4. Remove the 3 screws (B) and 2 tab (C).
- 5. Remove the Main P.C.B.



9. Service Positions

9.1. Checking procedure

Note:

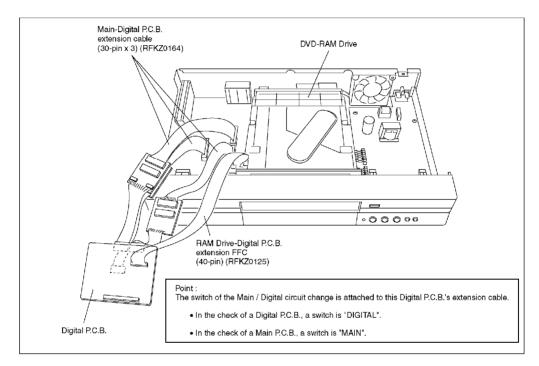
For the disassembling procedure, see the section 8.

9.2. Checking the Digital P.C.B.

- 1. Remove the Top Cover.
- 2. Remove the FFC (RAM Drive Digital P.C.B.).
- 3. Remove the Digital P.C.B.
- 4. Use the extension cable (RFKZ0164) to connect the Main P.C.B. and Digital P.C.B.

5. Use the extension FFC (RFKZ0125) to connect the RAM Drive and Digital P.C.B.

Service tools				
Extension FFC RFKZ0125 (40Pin)				
(RAM Drive - Digital				
P.C.B.)				
Extension Cable	RFKZ0164 (30Pin x 3)			
(Main P.C.B Digital				
P.C.B.)				



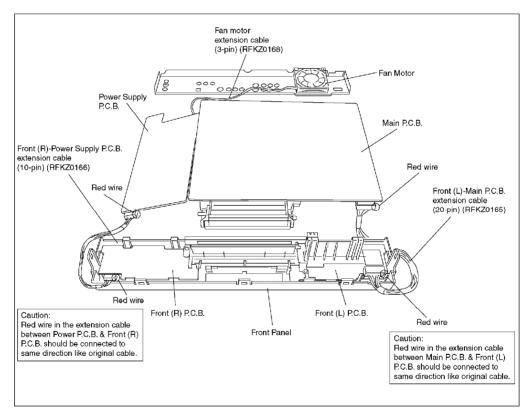
9.3. Checking the Main P.C.B.

- 1. Remove the Top Cover.
- 2. Remove the Front Panel.
- 3. Remove the Rear Panel.
- 4. Remove the Power Supply P.C.B., Main P.C.B. and RAM Drive.
- 5. Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.
- 6. Connect the Power Supply P.C.B., Main P.C.B. and RAM Drive.
- 7. Install to the service positions views.
- 8. Use the extension cable (RFKZ0165) to connect the Main P.C.B.

and Front P.C.B. (L).

9. Use the extension cable (RFKZ0166) to connect the Power supply P.C.B. and Front P.C.B. (R).

Service tools				
Extension Cable (Main P.C.B Front (L) P.C.B.)	RFKZ0165 (20Pin)			
Extension Cable (Power supply P.C.B Front (R) P.C.B.)	RFKZ0166 (10Pin)			
Extension Cable (Fan motor)	RFKZ0168 (3Pin)			

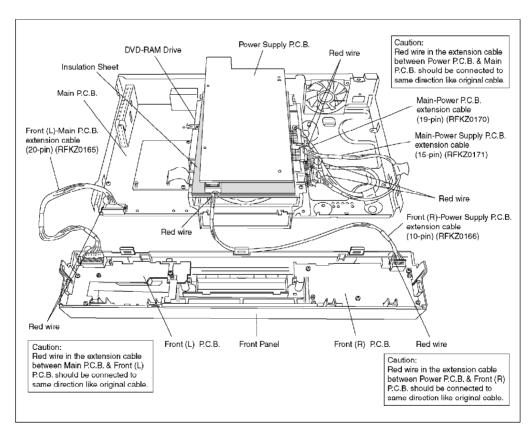


9.4. Checking the Power Supply P.C.B.

- 1. Remove the Top Cover.
- 2. Remove the Front Panel.
- 3. Remove the screw which fixed Rear Panel and AC Inlet on the Power Supply P.C.B..
- 4. Remove the Power Supply P.C.B., fix it on the insulation sheet.

- 5. Use the extension cables (RFKZ0170,RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B..
- 6. Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.
- 7. Use the extension cable (RFKZ0166) to connect the Power Supply P.C.B. and Front (R) P.C.B.

Service tools				
Extension Cable (Main P.C.B Front (L) P.C.B.)	RFKZ0165 (20-pin)			
Extension Cable (Power supply P.C.B Front (R) P.C.B.)	RFKZ0166 (10-pin)			
Extension Cable (Main P.C.B Power supply P.C.B.)	RFKZ0170 (19-pin)			
Extension Cable (Main P.C.B Power supply P.C.B.)	RFKZ0171 (15-pin)			



10. List of Various Mode

10.1. List of Various Buttons

Each buttons name	Functions
DVD	To turn power on or off on the DVD.
VIDEO Plus+ (Show View/G code)	To set timer program using G code/Show view/VIDEO Plus+
AV	To set AV input on the TV.
Numeric	To put each number for
buttons(10key)	selecting each functions.
CANCEL	To cancel maker.
SKIP(Reverse)/ (Forward)	To skip chapter or marker position for reverse or forward direction.
STOP	To stop the recording or playback .
PAUSE	To still for playback or pause for recording.
DIRECT	<programme navigation=""></programme>
NAVIGATOR/	To display menu for recoeded
TOP MENU	program.
	<top menu=""></top>
	(For only VCD or DVD-Video) To display top menu on the VCD or DVD-Video.
Cursor buttons	To move cursor position to select each menu.
FUNCTIONS	To display function menu.
TIMER	To turn timer function on or off.
PROG/CHECK	To display timer porgram menu.
TV	To turn power on or off on the TV.
DVD/TV	To select DVD or Tv operation.
REC	To set the recording.
DIRECT TV REC	To immediately record present
	TV program that you are
	watching on the TV.
	* Scart cable must be connected with TV.
	* Q-link function must be
	installed in the TV.
CH UP/DOWN	To select channel on the TV or DVD.
VOLUME UP/ DOWN	To control volume on the TV.

Functions
<slow> To set the slow mode during still.</slow>
<search> To set the cue or review during playback.</search>
<play></play>
To set playing back.
<x1.3></x1.3>
To set the times 1.3 speed for
playback by keep pressing
playback button for more than 1 second.
<play list=""></play>
To display play list.
<menu></menu>
(For only VCD or DVD-Video) To
display menu on the VCD or
DVD-Video.
To return to previous condition.
To skip after 30seconds.
(HDD,RAM,DVD-R) To playback
program being recorded by
setting time duration for each
1minute during recording.
(HDD,RAM,DVD-R) To playback
recorded program by setting
time duration for each 1minute.*
During recording or
playback,playback 30seconds previous by pressing the button.

Below buttons are located inside slide cover.

Each buttons name	Functions
REC MODE	To set recording speed.
F Rec	To frexible recording with best quality to caluculate recording rate within remaining recording time.
STATUS	To display product status,time status & present bit-rate.
INPUT SELECT	To set AV input on the DVD.
ERASE	To erase recorded program or playlist during playback.
AUDIO	To select audio with tuner input or playback sound.
FRAME (Reverse/ Forward)	To set frame advance.
POSITION MEMORY	To memorize STOP position for playing back again. * STOP position is erased by turning power off and openning tray.
MARKER	(DVD-RAM/-R)To put marker for making chapter.
AV LINK	To playback on the DVD and select AV1 mode on the TV automatically. * Scart cable must be connected with TV.
DISPLAY	To select disc,playback,picture & sound status.
OPEN/CLOSE	To open or close tray.
SETUP	To display SETUP menu.
DUBBING	To dub recorded program at HDD to DVD-RAM/-R during playback.
EXT LINK	To set EXT LINK mode to record automatically by detecting signal from external equipment.

10.2. Special modes at a glance

10.2.1. Service modes

Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.

Item		FL display	Key operation
Mode name Description			Remote controller key
Clear item	Items 1-20 are cleared.		[0] [0] while in service mode
		SERVICE MODE	
Error code display	FL display of the last error code held by timer	F00 FL display of the error code (U/H/F)	[0] [1] while in service mode
ROM version display	timer and drive firmware versions are displayed on screen	REGION*	[0] [2] while in service mode
	and FL tube.	MAIN ****	
		TIMER ****	
		DRIVE ****	
White picture output	White picture output from AV decoder	* Version display Initialization mode (Interlace)	[1] [1] while in service m
	White picture (Chroma: 100%) Switching enabled by subcommand "I/P	WHIT I	
	switch"	Progressive/ Interlace switched.	[1] [4] while in white picture
		WHIT P	*I [←] → P Toggle switched.
Magenta picture output	Magenta picture output from AV	Initialization mode (Interlace)	[1] [2] while in service m
	decoder Magenta picture (Chroma: 100%) Switching enabled by	MAGE I	
	subcommand "I/P switch"	Progressive/ Interlace switched	[1] [4] while in Magenta pict mode
		MAGE P	*I ← → P Toggle switched.

Item		FL display	Key operation
Mode name	Description		Remote controller key
RTSC return XP (A&V)	Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.	Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz)	[1] [3] while in service m
		EE2 XP 48	
		Progressive/ Interlace switched.	[1] [4] while in RTSC return mode
			*I [←] → P Toggle switched.
		EE2 P XP 48	
		Audio 44.1kHz/ 48kHz switch	[2] [4] while in RTSC retur mode
			*48k ^{← →} 44.1k Toggle swi
		EE2 I XP 44	
I/P switching	"Interlace" and	Initialization mode	[1] [4] while in service me
	"Progressive" are switched. Initial setting is "Interlace".	SERVICE I	*I ← → P Toggle switch
	(This command is effective when performing 14 and 15.)	Progressive	
		SERVICE P	
Audio Mute (XTMUTE)	Check whether mute is applied normally by the microcomputer timer.	TIMER MUTE	[2] [1] while in service m
Audio Mute (XDMUTE)	Check whether is mute applied normally by the Digital P.C.B. (GLUE IC).	MAIN MUTE	[2] [2] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller key
Audio pattern output	stored in the internal	Initialization mode (Interlace)	[2] [3] while in service m
	memory is output (1kHz-18dB).	AUDIO 48	
		Audio 44.1kHz / 48kHz switched.	[2] [4] while in white picture
			*48k ← → 44k Toggle switc
		AUDIO 44	
RAM drive last error	RAM drive error code display. *For details about the drive error code, refer	** *** * * * * * (1) (2) (3) (4) (5)	[3] [2] while in service m
	to the manual for the specific RAM drive.	* (1) Sense key * (2)Additional sense code * (3)Host detail * (4)Access detail * (5)Mecha detail * This information is saved to EEPROM on the RAM drive.	
Laser use time	To check laser use		[4] [1] while in service m
display	time of drive	LASER ***	
		* (*) displays the time (in hours). * The last working time is incremented in both the DVD/CD Play and Record modes.	
Laser error count	The number of times that a laser error has occured due to a	LASERERR *	[4] [3] while in service m
	defective disc or defective drive is counted and displayed.	* (*)is the number of times a laser error occured. * This information is saved to EEPROM on the RAM drive.	
Factors which cause drive error	The disc condition is displayed when an error occures.	** *** ** ** ** (1) (2) (3) (4) (5)	[4] [4] while in service m
		* (1)Sense key * (2)Additional sense code * (3)Host detail * (4)Access detail * (5)Mecha detail * This information is saved to EEPROM on the RAM drive.	

ltem		FL display	Key operation
Mode name	Description		Remote controller key
Disc manufacture ID	Display the manufacture's ID for a disc on which a drive error has occured.	******* The display example can be checked using the separate table.	[4] [5] while in service m
Illumination of all FL /LEDs	All FL and LEDs are lit up.	Illumination of all FL/LED's	[5] [1] while in service m
S1 signal output	Forcibly superimpose the S1 signal (5V DC) on the EE chroma signal, and check the output on the S terminal.	S1 OUTPUT	[5] [2] while in service m
S2 signal output	Forcibly superimpose the S2 signal (2.2V DC) on the EE chroma signal, and check the output on the S terminal.	S2 OUTPUT	[5] [3] while in service m
Front connection inspection	Press all the main unit's buttons and check the connection with the Main P.C.B	(1) (2) *(1)Each time a key is pressed, the grid on the FL display will grow larger. *(2)Total number of main unit buttons.	[5] [4] while in service m
Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	CYCLE **** *FL display of the CYCLE count out.	[9] [1] while in service me * AC power should be turne to release this operation
Error code initialization	Initialization of the last error code held by timer (Write in F00)	ERROR INIT	[9] [8] while in service m
Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	FACT INIT	[9] [9] while in service m

10.2.2. Other special modes

Item		FL display	Key operation
Mode name	Description		Remote controller key
Factory mode 1	*All the main unit's parameters are initialized. *Since a drive region is not specified [0] on replacement drives, it is specified when the drive is replaced.	TEST L1	When the power is off, pres SKIP(R), TIME SLIP and OPI CLOSE simultaneously for seconds.
Audiovisual ID cancel	The audiovisual level setting password is canceled.		(Remote control) Set the audiovisual limit level to "8 set the ID number to "00"
Shop display LOCK cancel	Ejection of the disc is prohibited		(Main unit) Open the tray, a press SKIP(R) and SKIP(L) simultaneously for five secures the OPEN/CLOSE but and make sure that [LOCK] displayed. Then, with the pron,press STOP and POWEF simultaneously for five secures.
Forced disc eject	Removing a disc that cannnot be ejected.		When the power is off, pres STOP and CH_UP simultaneously for five sec
Progressive initialization	The progressive setting is initialized.		In STOP(EE) mode, press C and CH DOWN simultaneou for five seconds.
ATP initialization	The ATP setting is initialized.		In STOP(EE) mode, press S and TIME SLIP simultaneou for five seconds.
Aging	See the * Aging Description below.		When the power is off, pres TIMEWARP + OPEN / CLOS CH DOWN simultaneously 1 five seconds.

* Aging Description

Format \rightarrow REC \rightarrow Play \rightarrow STOP \rightarrow Play \rightarrow SKIP (R) \rightarrow Cue \uparrow Stop \leftarrow Play \leftarrow R-Slow \leftarrow Slow \leftarrow Play \leftarrow Rev \leftarrow The above is repetition operated.

10.2.3. List of the U/H/F Error Displays

Display	Diagnosis	Description	FL display
U12	Remote control mode error	Display appears when main unit and remote controller modes are not matched.	_
			CHK REI
U14	U14 Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71Åé. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedforthe first 5 minutes. For	U14
		the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	Displayed from the time of detection and while key en disabled after power-off (3 minutes).
U99	Hang-up	Displayed when microprocessor has hang- up.	
			U99
			Remains displayed.
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	
			H01
			Remains displayed.
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code	
		initialization and main unit initialization.)	F00
			Remains displayed.
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	
			F01
			Remains displayed.

Display	Diagnosis	Description	FL display
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	F12
UNSUP	ங்ரு Rupported disc error	*A disc an unsupported format was played, even though the drive starts normally. *The data format is not supported even though the media type is supported.	Remains displayed. UNSUPPOR
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	NO READ
HARD ERR	Drive error	The drive detected a hard error.	HARD ERF
RECOV	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive.	RECOVEF

10.3. The information table of an error generating disk

10.3.1. Error generating disk type

(hexadecimal)	Disk type
00	DVD-ROM/Video
10	Audio-CD
20	2.6GB DVD-RAM
30	4.7GB DVD-RAM
40	DVD-R

10.3.2. Error generating disk state

(hexadecimal)	Contets			
	Sizes of disk	Cartridge disk state	Cartridge state	Disk distinction state
00	12cm	Have not opened yet.	With cartridge	ОК
10	12cm	Have not opened yet.	With cartridge	NG
20	12cm	Have not opened yet.	Nakedness	ок
30	12cm	Have not opened yet.	Nakedness	NG
40	12cm	Have been opened.	With cartridge	ОК
50	8cm	Have not opened yet.	Nakedness	OK
60	12cm	Have been opened.	Nakedness	ОК
70	12cm	Have been opened.	Nakedness	NG
80	8cm	Have not opened yet.	With cartridge	ОК
90	8cm	Have not opened yet.	With cartridge	NG
A0	12cm	Have been opened.	With cartridge	NG
B0	8cm	Have not opened yet.	Nakedness	NG
C0	8cm	Have been opened.	With cartridge	ок
D0	8cm	Have been opened.	With cartridge	NG
E0	8cm	Have been opened.	Nakedness	ОК
F0	8cm	Have been opened.	Nakedness	NG

10.3.3. Disk production maker ID

No	FL displays	Disk type / Maker name
		DVD-R by Panasonic
2	PVC****	DVD-R by Pioneer
3	MCC****	DVD-R by MITSUBISHI
4	TDK****	DVD-R by TDK
5	MXL****	DVD-R by Maxell
6	MCI****	DVD-R by MITUI CHEMICALS
7	MATSUSHITA	DVD-RAM by Panasonic
8	MXL*	DVD-RAM by Maxell

^{*} Since a display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.

Please make it reference as an example of a display.

11. Abbreviations

INI	ΓIAL/LOGO	ABBREVIATIONS
Α	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMPOUTPUT
	ASYNC	AUDIO WORD DISTINCTION
		SYNC
В	ВСК	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	ВҮРАТН
	BYTCK	BYTE CLOCK
С	CAV	CONSTANT ANGULAR
	CBDO	VELOCITY
	CD	CAP. BLACK DROP OUT
	CDSCK	COMPACT DISC
	CDSRDATA	CD SERIAL DATA CLOCK
		CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	СРА	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INIT	TIAL/LOGO	ABBREVIATIONS
IIVI		
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	
	DO	DIGITAL MUTE CONTROL
	DOUT0~UP	DROP OUT
		DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INI	ΓIAL/LOGO	ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL
		REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/
	ETSCLK	40.5MHz)
		EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED
	FEO	INPUT
	FG	FOCUS ERROR AMP OUTPUT
	FSC	FREQUENCY GENERATOR
	FSCK	FREQUENCY SUB CARRIER
		FS (384 OVER SAMPLING)
		CLOCK
G	GND	COMMON GROUNDING
		(EARTH)
Н	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INIT	TAL/LOGO	ABBREVIATIONS		
I	IECOUT IPFRAG	IEC958 FORMAT DATA OUTPUT		
	IREF	INTERPOLATION FLAG		
	ISEL	I (CURRENT) REFERENCE		
		INTERFACE MODE SELECT		
L	LDON	LASER DIODE CONTROL		
	LPC	LASER POWER CONTROL		
	LRCK	L CH/R CH DISTINCTION CLOCK		
M	MA0~UP	MEMORY ADDRESS		
	MCK	MEMORY CLOCK		
	MCKI	MEMORY CLOCK INPUT		
	MCLK MDATA	MEMORY SERIAL COMMAND CLOCK		
	MDQ0~UP	MEMORY SERIAL COMMAND DATA		
	MLD	MEMORY DATA INPUT/OUTPUT		
	MPEG	MEMORY DATA I/O MASK		
		MEMORYSERIAL COMMAND		
		LOAD		
		MOVING PICTURE EXPERTS		
	_	GROUP		
0	ODC	OPTICAL DISC CONTROLLER		
	OFTR	OFF TRACKING		
	OSCI	OSCILLATOR INPUT		
	OSCO	OSCILLATOR OUTPUT		
P	OSD P1~UP	ON SCREEN DISPLAY PORT		
[PCD	CD TRACKING PHASE		
	PCK	DIFFERENCE		
	PDVD	PLL CLOCK		
	PEAK	DVD TRACKING PHASE		
	PLLCLK /	DIFFERENCE		
	PLLOK	CAP. FOR PEAK HOLD		
	PWMCTL	CHANNEL PLL CLOCK		
	PWMDA	PLL LOCK		
	PWMOA, B	PWM OUTPUT CONTROL		
		PULSE WAVE MOTOR DRIVEA		
		PULSE WAVE MOTOR OUT A, B		

INIT	TAL/LOGO	ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SILIMADIL	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA
		SYSTEM CLOCK

		SYSTEM CLOCK
INI	TIAL/LOGO	ABBREVIATIONS
Т	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INIT	TAL/LOGO	ABBREVIATIONS		
٧	VBLANK	V BLANKING		
	VCC	COLLECTOR POWER SUPPLY		
		VOLTAGE		
	VCDCONT	VIDEO CD CONTROL		
		(TRACKING		
	VDD	BALANCE)		
	VFB	DRAIN POWER SUPPLY		
	VREF	VOLTAGE		
	vss	VIDEO FEED BACK		
		VOLTAGE REFERENCE		
		SOURCE POWER		
		SUPPLYVOLTAGE		
W	WAIT	BUS CYCLE WAIT		
	WDCK	WORD CLOCK		
	WEH	WRITE ENABLE HIGH		
	WSR	WORD SELECT RECEIVER		

INIT	ΓIAL/LOGO	ABBREVIATIONS
Х	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	xcs	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	ХО	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

12. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.

Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

- 12.1. Power Supply P.C.B.
- 12.2. Main P.C.B.
- 12.3. Front (R) P.C.B.
- 12.4. P9001 Connector
- 12.5. P9001 Waveform
- 13. Block Diagram

13.1. Power Supply Block Diagram

- 13.1.1. Integrated Circuit Power Supply Chart (PSC 1 PSC 14)
- 13.2. Analog Video Block Diagram
- 13.3. Analog Audio Block Diagram
- 13.4. Timer Block Diagram
- 13.5. Digital Section Block Diagram
- 13.5.1. Digital Block IC Pin Terminal Chart (TC 1 TC 24)

14. Schematic Diagram

- 14.1. Interconnection Schematic Diagram
- 14.2. Main Power Supply Schematic Diagram (Power Supply P.C.B.)
- 14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)
- 14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)
- 14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)
- 14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)
- 14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)
- 14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/6)
- 14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/6)
- 14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/6)
- 14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/6)
- 14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/6)
- 14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/6)
- 14.14. Front (L) Schematic Diagram
- 14.15. Front (R) Schematic Diagram

15. Print Circuit Board

15.1. Power Supply P.C.B.

15.2. Main P.C.B.

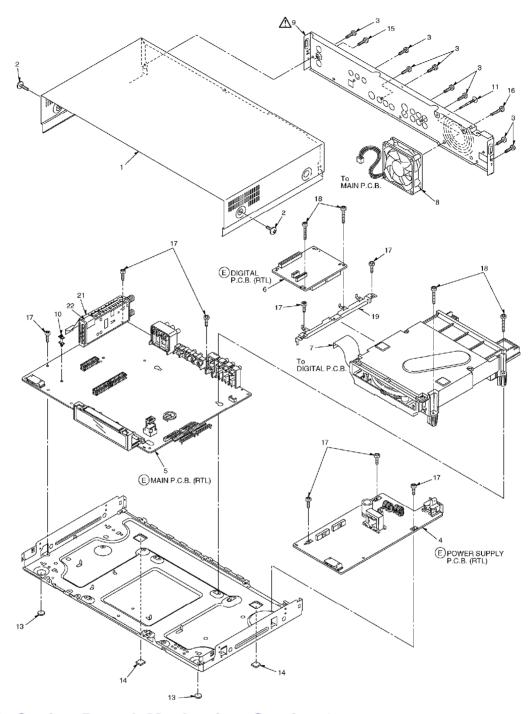
- 15.2.1. Main P.C.B. (Section 1/4)
- 15.2.2. Main P.C.B. (Section 2/4)
- 15.2.3. Main P.C.B. (Section 3/4)
- 15.2.4. Main P.C.B. (Section 4/4)
- 15.2.5. Main P.C.B. Address Information

15.3. Digital P.C.B.

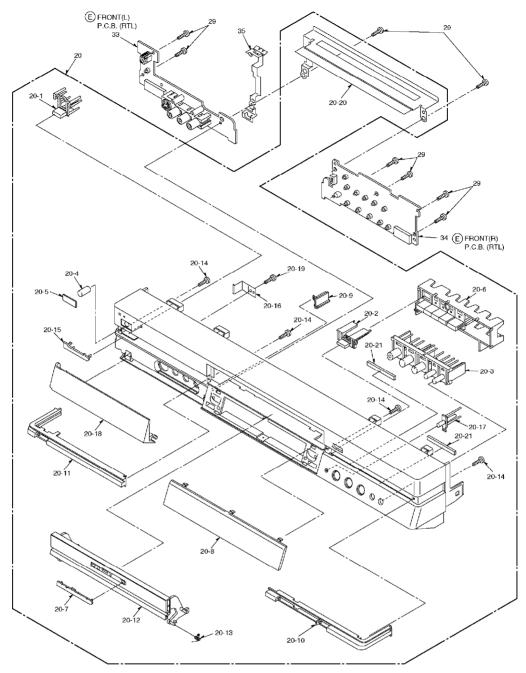
- 15.3.1. Digital P.C.B. (Section 1/2)
- 15.3.2. Digital P.C.B. (Section 2/2)
- 15.3.3. Digital P.C.B. Address Information
- 15.4. Front (L) P.C.B.
- 15.5. Front (R) P.C.B.

16. Exploded Views

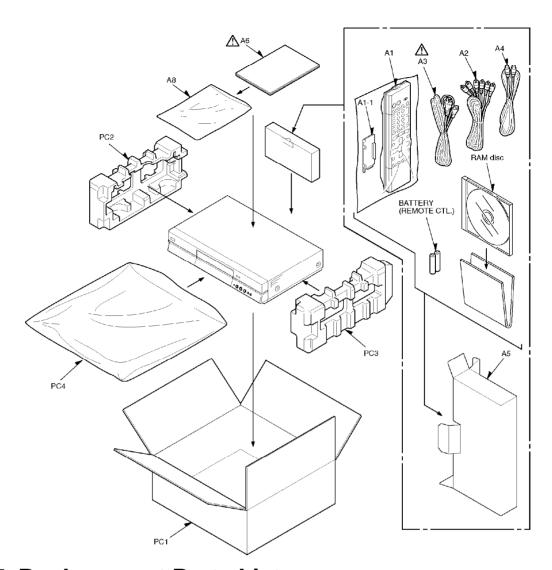
16.1. Casing Parts& Mechanism Section 1



16.2. Casing Parts& Mechanism Section 2



16.3. Packing& Accessories Section



17. Replacement Parts List

Notes:

*Important safety notice:

Components identified by A mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

*Warning: This product uses a laser diode. Refer to caution statements.

*Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).

*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).

*The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

*"<IA>"-"<IC>", marks in Remarks indicate languages of instruction manuals. [<IA>: English, <IB>: Canadian French, <IC>:English/ French/ Spanish]

*"(S)", "(K)" marks in Remarks indicate models.

[(S): DMR-E50P-S, (K): DMR-E50P-K and DMR-E50PC-K]

All parts are supplied by S.P.C..

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	01	CASING/ACCESSORY/PACKING		
	RKM0485-K	TOP COVER	1	(K)
•	RKM0485-S	TOP COVER	1	(S)
	SNE2129	SCREW	2	(-)
	VHD0690	SCREW	8	
	VEP01933A	POWER SUPPLY P.C.B.	1	(RTL)
<u> </u>	REP3497B	MAIN P.C.B.	1	(RTL)
	REP3496B	DIGITAL P.C.B.	1	(P)(RTL)
	REP3496BC	DIGITAL P.C.B.	1	(PL)(RTL)
i	REP3496BD	DIGITAL P.C.B.	1	(PC)(RTL)
	VWJ1650	FFC(40P)	1	
	L6FALCCE0001	FAN MOTOR	1	
<u> </u>	RGR0337B-A	REAR PANEL	1	(P) A
<u> </u>	RGR0337B-D	REAR PANEL	1	(PL) A
1	RGR0337B-E	REAR PANEL	1	(PC) <u>A</u>
<u> </u>	RMX0244	PCB HOLDER	1	(i o) —
<u>•</u> <u>1</u>	RMR1529-K	RIVET	1	
<u>.</u> <u>3</u>	RKA0143-K	LEG	2	
<u>4</u>	RKA0144-K	FOOT RUBBER	2	
<u>-</u> 5	XSN3+4FZ	SCREW	1	
6	XTN3+23JFZ	SCREW	1	
7	XTN3+7F-C	SCREW	8	
8	RHD30106	SCREW	4	
<u>9</u>	RMA1640	DIGITAL ANGLE	1	
<u>•</u> <u>:0</u>	RYP1183A-K	FRONT PANEL ASS'Y1	1	(K)
0	RYP1183A-S	FRONT PANEL ASS'Y1	1	(S)
<u>0-1</u>	RGU2185A-K	POWER BUTTON ASS'Y	1	(S)
0-1	RGU2185A-S	POWER BUTTON ASS'Y	1	(K)
0-2	RGU2186-K	OPEN BUTTON	1	(K)
0-2	RGU2186-S	OPEN BUTTON	1	(S)
<u>0-3</u>	RGU2188-K	OPERATION BUTTON	1	(K)
0-3	RGU2188-S	OPERATION BUTTON	1	(S)
0-4	RGQ0327-Q	IR WINDOW GUIDE	1	1-7
<u>0-5</u>	RKW0724-K	IR WINDOW	1	(K)
0-5	RKW0724-S	IR WINDOW	1	(S)
<u>:0-6</u>	RGU2187A-K	CHANNEL BUTTON	1	(S)
0-6	RGU2187A-S	CHANNEL BUTTON	1	(K)
<u>0-7</u>	RGB0146-S	DVD RECORDING BADGE	1	V-7
0-8	RGK1643-Q	FL ORNAMENT	1	
<u>0-9</u>	RMR1526-H	SHAFT HOLDER	1	
<u>0-10</u>	RGK1623A-K	FRONT ORNAMENT(R)	1	(S)
0-10	RGK1623A-S	FRONT ORNAMENT(R)	1	(K)
<u>0-11</u>	RGK1623A-3	FRONT ORNAMENT(L)	1	(S)
0-11	RGK1622-R	FRONT ORNAMENT(L)	1	(K)
0-12	RKF0668-K	TRAY DOOR	1	(K)
0-12 0-12	RKF0668-S	TRAY DOOR	1	(K) (S)
	5556 5	50011	'	(3)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
20-14	XTN2+6G	SCREW	4	
<u>20-15</u>	VGB0560	PANASONIC BADGE	1	
<u>20-16</u>	RMC0539	DOOR SPRING	1	
20-17	RGL0620-Q	LIGHTING PIECE	1	
20-18	RKF0666A-K	PANEL DOOR	1	(K)
20-18	RKF0666A-S	PANEL DOOR	1	(S)
20-19	XTBS26+8J	SCREW	1	
20-20	RMA1639	FRONT ANGLE	1	
20-21	RMX0252	DAMPER SHEET	2	
<u>21</u>	VGQ5954	TAPE1	1	
<u>22</u>	RGQ0324-K	TAPE2	1	
29	XTBS26+10J	SCREW	8	
<u>33</u>	REP3528AB	FRONT(L)P.C.B.	1	(RTL)
<u>34</u>	REP3528BA	FRONT(R)P.C.B.	1	(RTL)
<u>35</u>	RMC0549	EARTH PLATE(A)	1	
<u>A1</u>	EUR7615KN0	REMOTE CONTROL ASS'Y	1	
A1-1	UR76EC1503A	BATTERY COVER	1	
<u>A2</u>	K2KA6CA00001	A/V CORD	1	
<u>A3</u>	K2CB2CB00006	AC CORD	1	Δ
A4	VJA1091	RF COAXIAL CABLE	1	K1TXAAA00001
<u>A4</u>	RPQF0238	ACCESSORY CASE	1	KTTXAAAUUUUT
<u>A5</u> A6	RPQF0238 RQT6920-P	OPERATING INSTRUCTIONS	1	Δ.
				<ia> ^</ia>
A6	RQT6921-C	OPERATING INSTRUCTIONS	1	<ib>(PC)</ib>
A6	RQT7038-M	OPERATING INSTRUCTIONS	1	<ic>(PL)</ic>
<u>A8</u>	RPF0378	POLYETHYLENE BAG	1	(PL)
A8	XZB25X34C03X	POLYETHYLENE BAG	1	(P)(PC)
PC1	RPG6497	PACKING CASE	1	(P-S)
PC1	RPG6554	PACKING CASE	1	(PL-S)
PC1	RPG6561	PACKING CASE	1	(P-K)
PC1	RPG6562	PACKING CASE	1	(PC-K)
PC2	RPN1607A	CUSHION(L)	1	
PC3	RPN1607B	CUSHION(R)	1	
~	02	VEP01933A		
C1120	ECQU2A104MLA	0.1U	1	⚠
C1121	ECQU2A103MLA	0.01U	1	Δ
C1124	F1BAF1020020	1000P	1	Δ
C1126	F1BAF1020020	1000P	1	<u> </u>
C1143	EEUEB2E101SE	250V 100U	1	
C1150	F2A1V5600013	35V 56U	1	
C1151	F1B3A182A009	250V 1800P	1	
C1152	ECUV1H101JCV	50V 100P	1	F1H1H101A736
C1153	ECUV1H222KBV	50V 2200P	1	ECJ1VB1H222K
C1154	ECJ1VB1H102K	50V 1000P	1	
C1200	ECQV1H104JL3	50V 0.1U	1	
C1201	F1H1H473A783	50V 0.047U	1	
C1202	F1H1H104A783	50V 0.1U	1	
C1260,61	F2A1A6810017	10V 680U	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1262	F2A1A1020054	10V 1000U	1	
C1271,72	F2A1C6810023	16V 680U	2	
C1301	F1J0J106A014	6.3V 10U	1	
C1302	ECA1AHG221	10V 220U	1	
C1401	F1H1H104A783	50V 0.1U	1	
C1402	F1H1H473A783	50V 0.047U	1	
C1403	ECJ1VB1H102K	50V 1000P	1	
C1404-06	F1H1H104A783	50V 0.1U	3	
C1407	ECUV1H101JCV	50V 100P	1	F1H1H101A736
C1408	ECJ1VB1H102K	50V 1000P	1	
C1409	F2A1A1020054	10V 1000U	1	
C1413	ECUV1H271JCV	50V 270P	1	F1H1H271A736
C1414	F1K1C3350002	16V 3.3U	1	
C1415,16	F1J0J106A014	6.3V 10U	2	
D1110	ERZVGAD471	DIODE	1	⚠
D1140	B0EBKT000002	DIODE	1	
D1151	AU01Z	DIODE	1	B0HAGM000006
D1152	MAZ4091NMF	DIODE	1	
D1154	MA2C165001VT	DIODE	1	
D1156	MA2J11100L	DIODE	1	
D1261	B0JAQE000004	DIODE	1	
D1271	B0JAQG000005	DIODE	1	
D1272,73	D1FL20UF4063	DIODE	2	B0HCMM000001
D1305	MA2Q73800L	DIODE	1	
D1400	MA2J11100L	DIODE	1	
D1402	MA2Q73800L	DIODE	1	
D1404	B0HANM000024	DIODE	1	
F1101	K5D162BK0005	FUSE	1	Δ
IC1150	C0DACZH00001	IC	1	
IC1200	UPC1093J	IC	1	C0DAEMC00002
IC1302	C0DBZHG00012	IC	1	
IC1303	C0DBZHE00014	IC	1	
IC1401	C0DBEKG00003	IC	1	
IC1410	C0DBAJG00005	IC	1	
			-	
IP1400	K5H202200005	IC PROTECTOR	1	Δ
L1120	G0B123E00001	COIL	1	<u>A</u>
				Δ
L1260	G0A100H00014	COIL 10UH	1	Δ
L1260 L1270	G0A100H00014 G0A100H00014	COIL 10UH	1 1	
L1260 L1270 L1400	G0A100H00014 G0A100H00014 VLQ0655K220T	COIL 10UH COIL 10UH COIL 22UH	1 1 1	<u>↑</u> G0A220G00016
L1260 L1270	G0A100H00014 G0A100H00014	COIL 10UH	1	
L1260 L1270 L1400 L1401	G0A100H00014 G0A100H00014 VLQ0655K220T	COIL 10UH COIL 10UH COIL 22UH	1 1 1	
L1260 L1270 L1400	G0A100H00014 G0A100H00014 VLQ0655K220T G0A220G00018	COIL 10UH COIL 10UH COIL 22UH COIL 22UH	1 1 1 1 1	
L1260 L1270 L1400 L1401 LB1122	G0A100H00014 G0A100H00014 VLQ0655K220T G0A220G00018 J0JKB0000003 K2AB2H000004	COIL 10UH COIL 10UH COIL 22UH COIL 22UH COIL 22UH AC INLET	1 1 1 1	G0A220G00016
L1260 L1270 L1400 L1401 LB1122	G0A100H00014 G0A100H00014 VLQ0655K220T G0A220G00018 J0JKB0000003	COIL 10UH COIL 10UH COIL 22UH COIL 22UH COIL	1 1 1 1 1 1	G0A220G00016

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q1200,01	PC123ZY2	TRANSISTOR	2	ВЗРВА0000078 ⚠
Q1270	B1DHED000008	TRANSISTOR	1	B3FBA000076 —
QR1200	UN2212	TRANSISTOR	1	UNR2212
QR1301-04	UNR221300L	TRANSISTOR	4	
R1120	ERDS1TJ474	1W 470K	1	
R1150	ERDS2FJ6R8	1/4W 6.8	1	
R1151	ERDS2FJ562	1/4W 5.6K	1	
R1152	ERDS2FJ103	1/4W 10K	1	
R1154	ER0S2CKG5601	1/4W 5.6K	1	
R1155	ER0S2CKG2701	1/4W 2.7K	1	EROS2CKG2701
R1156	ER0S2CKG1502	1/4W 15K	1	EROS2CKG1502
R1157	EROS2TKG6800	1/4W 68	1	
R1200	ERJ6GEYG393V	1/10W 39K	1	
R1201	ERJ6GEY0R00V	1/10W 0	1	
R1204	ERJ6GEYF472	1/10W 4.7K	1	
R1206	ERJ6GEYG242	1/10W 2.4K	1	
R1207	ERJ6GEYJ103V	1/10W 10K	1	
R1208	ERJ6GEYG241	1/10W 240	1	
R1209	ERJ6GEYJ102V	1/10W 1K	1	
R1210	ERJ6GEYG362	1/10W 3.6K	1	
R1211	ERJ6GEYJ472V	1/10W 4.7K	1	
R1270	ERJ6GEYJ472V	1/10W 4.7K	1	
R1305	ERJ6GEYJ472V	1/10W 4.7K	1	
R1309	ERJ6GEYJ103V	1/10W 10K	1	
R1310	ERJ6GEY0R00V	1/10W 0	1	
R1400	ERJ6GEYJ334V			
		1/10W 330K	1	
R1401	ERJ6GEYG105	1/10W 1M	1	
R1402	ERJ6GEYJ103V	1/10W 10K	1	
R1403	ERJ6RBD222	1/10W 2.2K	1	
R1404	ERJ6GEYJ470V	1/10W 47	1	
R1405	ERJ6RED330	1/10W 33	1	
R1406	ERJ6GEYJ103V	1/10W 10K	1	
R1407	ERJ6RBD821	1/10W 820	1	
R1408,09	D1BDR2200001	0.22	2	
R1410	ERJ6GEY0R00V	1/10W 0	1	
R1411	ERJ6RBD123	1/10W 12K	1	
R1412	ERJ6RBD243	1/10W 24K	1	
R1413	ERJ6GEYJ100V	1/10W 10	1	
R1414	D1BDR3300001	0.33	1	
T1150	G4D2A0000112	TRANSFORMER	1	Δ
W501,02	ERJ6GEY0R00V	1/10W 0	2	
ZA1101,02	VJR0978	EARTH ANGLE	2	K9ZZ00000424
ZA1103,04	K3GD9BB00001	FUSE HOLDER	2	
ZA1105	VJR0978	EARTH ANGLE	1	K9ZZ00000424
~	03	REP3497B		
	-	112.010.2		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
B7501	CR-2032/1GUF	LITHIUM BATTERY	1	
C1502	F2A1E221A210	25V 220U	1	
C1503,04	F2A1A471A211	10V 470U	2	
C1505,06	F2A0J471A256	6.3V 470U	2	
C1507	ECJ1VB1C104K	16V 0.1U	1	
C1508	F2A0J470A012	6.3V 47U	1	
C1509	F2A1E4700048	25V 47U	1	
C1512	F2A1E4700048	25V 47U	1	
C1514	F2A1E4700048	25V 47U	1	
C1528	ECJ1VB1C104K	16V 0.1U	1	
C1530	F2A1E4700048	25V 47U	1	
C3001-04	ECJ1VC1H470J	50V 47P	4	
C3005	ECJ1VC1H560J	50V 56P	1	
C3006,07	ECUV1H390JCV	50V 39P	2	ECJ1VC1H390J
C3008	ECJ1VB1H103K	50V 0.01U	1	
C3009	ECEA0JKS470	6.3V 47U	1	
C3010	ECUV1H680JCV	50V 68P	1	ECJ1VC1H680J
C3011	ECUV1H390JCV	50V 39P	1	ECJ1VC1H390J
C3012	ECJ1VB1H103K	50V 0.01U	1	
C3013	ECEA0JKS470	6.3V 47U	1	
C3014	ECJ1VC1H220J	50V 22P	1	
C3016	ECJ1VC1H220J	50V 22P	1	
C3017	ECJ1VB1H103K	50V 0.01U	1	
C3018	ECJ1VC1H220J	50V 22P	1	
C3019,20	ECJ1VC1H330J	50V 33P	2	
C3022	ECJ1VB1H103K	50V 0.01U	1	
C3022	ECJ1VB1R103K	16V 0.1U	1	
C3023			1	
	ECEA0JKS470	6.3V 47U		
C3025	ECJ1VC1H102J	50V 1000P	1	
C3027	ECEA1HKS010	50V 1U	1	
C3028,29	ECJ1VB1H103K	50V 0.01U	2	
C3030	ECJ1VC1H561J	50V 560P	1	
C3031	ECJ1VB1C104K	16V 0.1U	1	
C3043	ECJ1VC1H560J	50V 56P	1	
C3044	ECJ1VB1C104K	16V 0.1U	1	
C3045	ECJ1VB0J105K	6.3V 1U	1	
C3046	ECEA0JKS470	6.3V 47U	1	
C3047	ECJ1VB1H103K	50V 0.01U	1	
C3048	ECJ1VB0J105K	6.3V 1U	1	
C3049	ECJ1VC1H150J	50V 15P	1	
C3050	ECJ1VB1C104K	16V 0.1U	1	
C3051	ECEA0JKS101	6.3V 100U	1	
C3052,53	ECEA0JKS470	6.3V 47U	2	
C3055	ECA0JM102	6.3V 1000U	1	
C3056	ECEA0JKS101	6.3V 100U	1	
C3057	ECJ1VB1C104K	16V 0.1U	1	
C3058	ECJ1VC1H560J	50V 56P	1	
C3059	ECA0JM102	6.3V 1000U	1	
C3060	ECEA0JKS101	6.3V 100U	1	
C3061	ECA0JM102	6.3V 1000U	1	
C3062	ECEA0JKS101	6.3V 100U	1	
C3063,64	ECEA0JKS331	6.3V 330U	2	
C3066	ECJ1VB1H102K	50V 1000P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3067	ECEA1HSN010	50V 1U	1	
C3068	ECEA0JKS220	6.3V 22U	1	
C3069	ECJ1VB1H103K	50V 0.01U	1	
C3070	ECJ1VB1H472K	50V 4700P	1	
C3071	ECJ1VB1H103K	50V 0.01U	1	
C3072,73	ECJ1VC1H470J	50V 47P	2	
C3074	ECJ1VC1H560J	50V 56P	1	
C3075	ECUV1H390JCV	50V 39P	1	ECJ1VC1H390J
C3076-84	ECJ1VB1H103K	50V 0.01U	9	2001101110300
C3085	ECJ1VB1H473K	50V 0.047U	1	
C3086-91	ECJ1VB1H103K	50V 0.01U	6	
C3092	ECJ1VB1C104K	16V 0.1U	1	
C3093,94	ECJ1VB1H103K	50V 0.01U	1	
C3095	ECEA0JKS470	6.3V 47U		
C3096	ECJ1VB1C104K	16V 0.1U	1	
C3097	ECJ1VC1H220J	50V 22P	1	
C3098	ECJ1VC1H150J	50V 15P	1	
C3099	ECJ1VC1H220J	50V 22P	1	
C3100	ECJ1VB1H103K	50V 0.01U	1	
C3101,02	ECEA0JKS470	6.3V 47U	2	
C3103	ECJ1XC1H180J	50V 18P	1	ECJ1VC1H180J
C3104	ECJ1VC1H102J	50V 1000P	1	
C3901	ECJ1VB1C104K	16V 0.1U	1	
C3902	ECJ1VB1H103K	50V 0.01U	1	
C3904	ECJ1VB1H103K	50V 0.01U	1	
C3906	ECJ1VB1H103K	50V 0.01U	1	
C3907	ECJ1VB1C104K	16V 0.1U	1	
C4003	F2A1H100A236	50V 10U	1	
C4005	F2A1E470A205	25V 47U	1	
C4006	F2A1H100A236	50V 10U	1	
C4021	ECJ1VF1C104Z	16V 0.1U	1	
C4023	F2A1H100A236	50V 10U	1	
C4025	F2A1H100A236	50V 10U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4028	ECJ1VF1C104Z	16V 0.1U	1	
C4029	F2A1C102A236	16V 1000U	1	
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4033,34	F2A1E470A205	25V 47U	2	
C4037-42	F2A1H100A236	50V 10U	6	
C4043	ECJ1VF1C104Z	16V 0.1U	1	
C4052	ECJ1VF1C104Z	16V 0.1U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	F2A0J471A247	6.3V 470U	1	
C4057	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J
C4058,59	ECJ1VF1C104Z	16V 0.1U	2	
C4060	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	F2A1A101A206	10V 100U	1	
C4063,64	F2A1E470A205	25V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4068	ECJ1VF1C104Z	16V 0.1U	1	
C4000	F2A1A101A206	10V 100U	1	
C4070	F2A1A101A206	10V 100U	1	
C4072				
U4U/4	ECJ1VF1C104Z	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4076-78	ECJ1VF1C104Z	16V 0.1U	3	
C4079,80	ECJ1VC1H330J	50V 33P	2	
C4082,83	ECJ2VC1H102J	50V 1000P	2	
C4901	F2A1A101A206	10V 100U	1	
C4902	ECJ1VF1C104Z	16V 0.1U	1	
C4903	F2A0J470A179	6.3V 47U	1	
C4904	ECJ1VF1C104Z	16V 0.1U	1	
C4906	ECJ1VC1H220J	50V 22P	1	
C7404	ECJ1VB1H103K	50V 0.01U	1	
C7405	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C7411	ECJ1VB1C104K	16V 0.1U	1	
C7412	F2A1A470A140	10V 47U	1	
C7416	ECJ1VB1H103K	50V 0.01U	1	
C7417	F2A1H1R0A147	50V 1U	1	F2A1H1R0A146
C7432,33	F2A1C100A019	16V 10U	2	TZAIIII.OAI40
C7438	ECJ1VB1C104K		1	
C7439	VCEA0JCB470B	16V 0.1U 6.3V 47U	1	F2A0J470A013
		50V 0.01U		FZAUJ4/UAU13
C7502,03	ECJ1VB1H103K		2	
C7504-06	ECJ1VC1H100C	50V 10P	3	
C7507,08	ECJ1VB1H103K	50V 0.01U	2	
C7517	ECJ1VB1H103K	50V 0.01U	1	
C7518,19	ECJ1VF1C104Z	16V 0.1U	2	
C7523,24	ECJ1VB1H103K	50V 0.01U	2	
C7525	F2A1H100A146	50V 10U	1	
C7526	ECJ1VF1H104Z	50V 0.1U	1	
C7528	F2A1C221A019	16V 220U	1	
C7529	F2A0J221A016	6.3V 220U	1	
C7531	ECQB1H223KF3	50V 0.022U	1	
C7532	F2A1V470A116	35V 47U	1	
C7533	F2A1H100A146	50V 10U	1	
C7534	ECUV1H100DCV	50V 10U	1	ECJ1VC1H100D
C7535	ECJ1VF1C104Z	16V 0.1U	1	
C7536	ECJ1VC1H120J	50V 12P	1	
C7537	ECJ1VF1A105Z	10V 1U	1	
C7539	ECJ1VC1H101J	50V 100P	1	
C7543-45	ECJ1VC1H101J	50V 100P	3	
C7546	ECJ1VF1C104Z	16V 0.1U	1	
C7547,48	ECJ1VC1H030C	50V 3P	2	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VB1H103K	50V 0.01U	1	
C9701,02	ECJ1VF1C104Z	16V 0.1U	2	
D3001	MA2C165001VT	DIODE	1	
D4005	MA3Z142D0RG	DIODE	1	
D7401	MA4300N-M	DIODE	1	MAZ4300NM
D7502	MAZ4240NMF	DIODE	1	
D7503	ERA22-02	DIODE	1	B0HAGM000001
D7505,06	MA2C18500E	DIODE	2	
D7507	MA4300N-M	DIODE	1	MAZ4300NM
D7513,14	B0JACE000001	DIODE	2	
DP7501	A2BD00000058	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1502	C0DBEFG00002	IC	1	
IC1504	C0DBZGG00010	IC	1	
IC1505	C0DBZHG00012	IC	1	
IC1508	C0DBZHE00014	IC	1	
IC1513	C0DBZHE00014	IC	1	
IC3002	C2BBFE000130	IC	1	
IC3003	C1AB00001735	IC	1	
IC3005	C9ZB00000377	IC	1	
IC4002	C0JBAR000285	IC	1	
IC4003	C0ABBB000118	IC	1	
IC4009	C0ABBB000118	IC	1	
IC4010	C0DBZJG00006	IC	1	
IC4011	C0DBZHG00012	IC	1	
IC4012	C0ABBB000118	IC	1	
IC7405	C0BBBB000006	IC	1	
IC7501	C2BBGF000414	IC	1	
IC7503	C0EBF0000182	IC	1	
IC7504	C0ZBZ0000732	IC	1	
IC7505	C0EBH0000263	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IP7501	D4FAR4000001	IC PROTECTOR	1	Δ
JK3901	K1U822B00001	JACK,IN1/IN3	1	
JK3902	K1U412B00001	JACK,OUT	1	
JK3903	K1U407B00001	JACK, VIDEO/AUDIO OUT	1	
K7401	ERJ3GEY0R00V	1/16W 0	1	
K7504	ERJ3GEY0R00V	1/16W 0	1	
1 2004	G0C120JA0019	COII 421III		
L3001 L3002		COIL 12UH	1	
	G0C220JA0019		1	
L3003,04	G0C120JA0019	COIL 12UH	2	
L3005	G0C220JA0019	COIL 22UH	1	
L3006	G0C120JA0019	COIL 12UH	1	
L3007	G0C4R7JA0019	COIL 4.7UH	1	
L3008	G0C220JA0019	COIL 22UH	1	
L3009,10	G0C4R7JA0019	COIL 4.7UH	2	
L3012	G0C4R7JA0019	COIL 4.7UH	1	
L3014	G0C120JA0019	COIL 12UH	1	
L3015,16	G0C4R7JA0019	COIL 4.7UH	2	
L3017,18	G0C120JA0019	COIL 12UH	2	000000140000
L3019	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3020	G0C120JA0019	COIL 12UH	1	
L3021	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3022,23	G0C120JA0019	COIL 12UH	2	
L4901	ELESE220KA	COIL 22UH	1	
L7501	ELESE101K	COIL 100UH	1	
L7502	G0C220JA0019	COIL 22UH	1	
LB1501-05	J0JHC0000032	COIL	5	
LB3001	VLP0323A601T	COIL	1	J0JCC0000103
LB3902	VLP0323A601T	COIL	1	J0JCC0000103
	7 E. 0020/10011	33.2	'	2200000000

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB3908-10	VLP0323A601T	COIL	3	J0JCC0000103
LB3912-18	VLP0323A601T	COIL	7	J0JCC0000103
LB4907,08	VLP0323A601T	COIL	2	J0JCC0000103
LB4911-14	VLP0323A601T	COIL	4	J0JCC0000103
LB7402,03	J0JHC0000032	COIL	2	
LB7408	J0JHC0000032	COIL	1	
LB7508	G0ZZ00001936	COIL	1	
LB9701,02	J0JHC0000032	COIL	2	
LB9703,04	ERJ3GEY0R00V	1/16W 0	2	
P7501	K1KB20B00040	CONNECTOR(20P)	1	
P7503	TJS118601T	CONNECTOR(3P)	1	K1KA03A00173
		· · ·		
PP1501	K1KA19A00016	CONNECTOR(19P)	1	
PP1502	K1KA08A00355	CONNECTOR(8P)	1	
PP1503	K1KA15A00124	CONNECTOR(15P)	1	
PP9701-03	K1KA30A00180	CONNECTOR(30P)	3	
Q3001,02	2SB1218A	TRANSISTOR	2	
Q3003	2SA153200L	TRANSISTOR	1	
Q3004	2SB1218A	TRANSISTOR	1	
Q3005	2SD1819A0L	TRANSISTOR	1	
Q3006,07	2SB1218A	TRANSISTOR	2	
Q3008	2SD1210A 2SD1819A0L	TRANSISTOR	1	
Q3009	2SB1218A	TRANSISTOR	1	
Q3010	2SD1210A 2SD1819A0L	TRANSISTOR	1	
Q3010 Q3011	2SC3930	TRANSISTOR	1	
Q3011	2SC3930 2SD1819A0L			
		TRANSISTOR	1	
Q3015	2SB1218A	TRANSISTOR	1	
Q4004	2SB1218A	TRANSISTOR	1	
Q4006,07	2SD132800L	TRANSISTOR	2	
Q7401	2SB1218A	TRANSISTOR	1	
Q7501	2SD1994BR1VT	TRANSISTOR	1	
Q7502	2SD0601A0L	TRANSISTOR	1	
Q7509	2SD874A	TRANSISTOR	1	2SD0874AW
Q7510,11	2SD0601A0L	TRANSISTOR	2	
QR3001	UNR521100L	TRANSISTOR	1	
QR3002	UN5213TX	TRANSISTOR	1	UNR521300L
QR3004,05	UNR521100L	TRANSISTOR	2	
QR3006-10	UN5213TX	TRANSISTOR	5	UNR521300L
QR3011	UN5113TW	TRANSISTOR	1	
QR4002-07	UNR521100L	TRANSISTOR	6	
QR4010-12	UNR521100L	TRANSISTOR	3	
QR7401	UN5213TX	TRANSISTOR	1	UNR521300L
QR7501	UN5212-TX	TRANSISTOR	1	UNR521200L
QR7504	UN5113TW	TRANSISTOR	1	
R1501	ERJ3GEY0R00V	1/16W 0	1	
R1502	ERJ3GEYJ471V	1/16W 470	1	
R1503	ECJ1VB1C104K	16V 0.1U	1	
R1515	ERDS2FJ271	1/4W 270	1	
R3001	MCR03PZHJ561	1/16W 560	1	
110001				

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3004	MCR03PZHJ561	1/16W 560	1	
R3005	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3006	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3007	ERJ3GEYJ102V	1/16W 1K	1	
R3008	MCR03PZHJ561	1/16W 560	1	
R3009	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3010	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3011	ERJ3GEYJ102V	1/16W 1K	1	
R3012-14	ERJ3GEY0R00V	1/16W 0	3	
R3015,16	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3017,18	ERJ3GEYJ102V	1/16W 1K	2	
R3019	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3020	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3021	ERJ3GEYJ472V	1/16W 4.7K	1	
R3022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3024	ERJ3GEYJ102V	1/16W 1K	1	
R3025	MCR03PZHJ561	1/16W 560	1	
R3026	ERJ3GEYJ102V	1/16W 1K	1	
R3027	ERJ3GEYJ105V	1/16W 1M	1	
R3028	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3029	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3030	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3032,33	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3039	ERJ3GEYJ221V	1/16W 220	1	
R3040	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3041	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3042	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3043	ERJ3GEYJ102V	1/16W 1K	1	
R3044,45	ERJ3GEYJ151V	1/16W 150	2	
R3046	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3047	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3048	ERJ3GEYJ102V	1/16W 1K	1	
R3049,50	ERJ3GEYJ151V	1/16W 150	2	
R3051	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3052	MCR03PZHJ561	1/16W 560	1	
R3053	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3054	ERJ3GEYJ104	1/16W 100K	1	
R3055	ERJ3GEYJ102V	1/16W 1K	1	
R3056	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3057	ERJ3GEYJ471V	1/16W 470	1	
R3058	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3060	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3061	ERJ3GEYJ152V	1/16W 1.5K	1	
R3062	ERJ3GEYJ102V	1/16W 1K	1	
R3063	ERJ3GEY0R00V	1/16W 0	1	
R3064	ERJ3GEYJ102V	1/16W 1K	1	
R3065,66	ERJ3GEY0R00V	1/16W 0	2	
R3067	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3068	ERJ3GEY0R00V	1/16W 0	1	
R3070,71	ERJ3GEY0R00V	1/16W 0	2	
R3072	ERJ3GEYJ102V	1/16W 1K	1	
R3073,74	ERJ3GEYJ221V	1/16W 220	2	
R3075,76	ERJ3GEY0R00V	1/16W 0	2	
R3077	ERJ3GEYJ102V	1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3080	ERJ3GEY0R00V	1/16W 0	1	
R3084	ERJ3GEYJ912V	1/16W 9.1K	1	
R3086	ERJ3GEY0R00V	1/16W 0	1	
R3087	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3096	ERJ3GEYJ271V	1/16W 270	1	
R3099	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3100	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3102,03	ERJ3GEYJ472V	1/16W 4.7K	2	
R3106	ERJ3GEYJ102V	1/16W 1K	1	
R3107	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
₹3108	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3901-04	ERJ3GEYJ750	1/16W 75	4	
R3907,08	ERJ3GEYJ750	1/16W 75	2	
R3920,21	ERJ3GEYJ750	1/16W 75	2	
R3923,24	ERJ3GEYJ750	1/16W 75	2	
R3926,27	ERJ3GEYJ750	1/16W 75	2	
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4003	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4004	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4006	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4008	ERJ3GEYJ103V	1/16W 10K	1	D0GB3333A002 D0GB103JA002
R4011	ERJ3GEYJ683V	1/16W 68K	1	D0GB1033A002
R4013	ERJ3GEYJ183V	1/16W 18K	1	D0GB0833A002
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
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R4015	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4021,22	ERJ3GEY0R00V	1/16W 0	2	DOODESO LAGOS
R4024	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4026	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4037,38	ERJ3GEYJ184V	1/16W 180K	2	
R4040-43	ERJ3GEYJ184V	1/16W 180K	4	
R4044,45	ERJ3GEY0R00V	1/16W 0	2	
R4046,47	JAR0816P752D	1/16W 7.5K	2	D0HB752ZA002
R4048	ERJ3GEYJ184V	1/16W 180K	1	
R4049-54	ERJ3GEYJ683V	1/16W 68K	6	D0GB683JA002
R4055	JAR0816P153D	1/16W 15K	1	D0HB153ZA002
R4057	JAR0816P153D	1/16W 15K	1	D0HB153ZA002
R4060-65	ERJ3GEYJ183V	1/16W 18K	6	D0GB183JA002
R4066,67	JAR0816P103D	1/16W 10K	2	D0HB103ZA002
R4068	ERJ3GEYJ184V	1/16W 180K	1	
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4072,73	ERJ3GEYJ563V	1/16W 56K	2	
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4076	ERJ3GEYJ821V	1/16W 820	1	
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	
R4081	ERJ3GEYJ821V	1/16W 820	1	
R4090	ERJ3GEYJ221V	1/16W 220	1	
R4093	ERJ3GEYJ221V	1/16W 220	1	
R4901	ERJ3GEY0R00V	1/16W 0	1	
R4903	ERJ3GEY0R00V	1/16W 0	1	
R7403,04	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7405,04	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB1013A002
R7405 R7406,07	ERJ3GEYJ101	1/16W 100	2	D0GB2223A002 D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7408,09	ERJ3GEY0R00V	1/16W 0	2	
R7418,19	ERG2SJ471E	2W 470	2	
R7445	ERJ3RBD222V	1/16W 2.2K	1	
R7446	ERJ3RBD153	1/16W 15K	1	
R7447	ERJ3RBD102V	1/16W 1K	1	
R7448	ERJ3RBD222V	1/16W 2.2K	1	
R7451	ERJ3RBD133V	116W 13K	1	
R7452	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7501	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7502	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7503	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7504	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7505	ERJ3GEYJ472V	1/16W 4.7K	1	
R7509	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7513,14	ERJ3GEYJ221V	1/16W 220	2	
R7515,16	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7518	ERDS2FJ331	1/4W 330	1	
R7519	ERDS2FJ3R9	1/4W 3.9	1	
R7521	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7522,23	ERJ3GEYJ104	1/16W 100K	2	
R7524	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7525	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7526,27	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7528	ERJ3GEYJ221V	1/16W 220	1	
R7529-31	ERJ3RBD822	1/16W 8.2K	3	
R7532-34	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	
R7537	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7540	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7541-43	ERJ3GEYJ473V	1/16W 47K	3	D0GB473JA002
R7544	ERJ3GEYJ221V	1/16W 220	1	
R7545	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7546	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7547	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7548,49	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7550	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7554,55	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7556	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7557	ERJ3GEY0R00V	1/16W 0	1	
R7558,59	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7563	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7564	ERJ3GEYJ102V	1/16W 1K	1	
R7566-73	ERJ3GEYJ683V	1/16W 68K	8	D0GB683JA002
R7576-78	ERJ3GEYJ104	1/16W 100K	3	
R7580-82	ERJ3GEYJ104	1/16W 100K	3	
R7586	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7587	ERJ3GEYJ221V	1/16W 220	1	
7588	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7590	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/16W 820	1	
R7602	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
T7501	ETS13TB119AP	TRANSFORMER	1	Δ

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
T117404	ENCD6201D	TIMED DACK	1	
TU7401	ENGD6201D	TUNER PACK	1	
WE04 00	ED I2CEVODON	4/4 CW 0		
W501-08	ERJ3GEY0R00V	1/16W 0	8	
W510-20	ERJ3GEY0R00V	1/16W 0	11	
W522-25	ERJ3GEY0R00V	1/16W 0	4	
V2004	1100000400040	CRYCTAL CCCUL ATOR		
X3001	H0D800400016	CRYSTAL OSCILLATOR	1	
X7501	H0A327200082	CRYSTAL OSCILLATOR	1	
X7502	H0D419400020	CRYSTAL OSCILLATOR	1	
	04	DED2406D/DED2406DC/DED2406DD		
~	04	REP3496B/REP3496BC/REP3496BD		
00004	EEVILIDO 1000D	0.00/.0011		
C3201	EEVHB0J220R	6.3V 22U	1	
C3202	ECJ1VB1C104K	16V 0.1U	1	
C3203	ECJ1VB1H222K	50V 2200P	1	
C3205	ECJ1VB1C104K	16V 0.1U	1	
C3207	ECJ1VB1H103K	50V 0.01U	1	
C3208	ECJ1VB1C104K	16V 0.1U	1	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3213	EEE0JA220SR	6.3V 22U	1	
C3216	ECJ1VB1H103K	50V 0.01U	1	
C3217-26	ECJ1VB1C104K	16V 0.1U	10	
C3227	EEE0JA101SP	6.3V 100U	1	
C3229,30	ECJ1VB1H102K	50V 1000P	2	
C3231	ECJ1VB1H103K	50V 0.01U	1	
C4402	ECJ1VF1C104Z	16V 0.1U	1	
C4403	F2G0J331A015	6.3V 330U	1	
C4406	EEE0JA220SR	6.3V 22U	1	
C4407	ECJ1VF1C104Z	16V 0.1U	1	
C4408	EEE0JA101SP	6.3V 100U	1	
C4409-14	ECJ1VB1H102K	50V 1000P	6	
C4415	EEE1EA4R7SR	25V 4.7U	1	
C4416	ECJ1VF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418,19	ECJ1VF1C104Z	16V 0.1U	2	
C6001	ECJ1VF1C104Z	16V 0.1U	1	
C9001	EEE0JA470SR	6.3V 47U	1	
C9003	EEE0JA470SR	6.3V 47U	1	
C9004	ECJ1VF1C104Z	16V 0.1U	1	
C9005	EEE0JA470SR	6.3V 47U	1	
C9007	F1J0J106A014	6.3V 10U	1	
C9011	EEE0JA470SR	6.3V 47U	1	
C9013	EEE0JA470SR	6.3V 47U	1	
C9014,15	ECJ1VC1H470J	50V 47P	2	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEE0JA220SR	6.3V 22U	1	
C50013,14	ECJ1VF1C104Z	16V 0.1U	2	
C50015	EEE0JA220SR	6.3V 22U	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEE0JA101SP	6.3V 100U	1	
C50025	ECJ1VF1C104Z	16V 0.1U	1	
C50026,27	EEE1CA100SR	16V 10U	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C50028	ECJ1VF1C104Z	16V 0.1U	1	
D3201,02	MA3S132E0L	DIODE	2	
D3203,04	MA2ZV0100L	DIODE	2	
D9001	MA3Z142K0LG	DIODE	1	
FL3201	F1H0J1050018	FILTER	1	
FL3205-13	F1H0J1050018	FILTER	9	
FL3216	F1H0J1050018	FILTER	1	
FL3218	F1H0J1050018	FILTER	1	
FL3220	F1H0J1050018	FILTER	1	
FL3225	F1H0J1050018	FILTER	1	
FL3401-06	F1H0J1050018	FILTER	6	
FL3409-19	F1H0J1050018	FILTER	11	
FL3421,22	F1H0J1050018	FILTER	2	
FL3425	F1H0J1050018	FILTER	1	
FL3428	F1H0J1050018	FILTER	1	
FL4401	F1H0J1050018	FILTER	1	
FL6001-06	F1H0J1050018	FILTER	6	
FL6009-13	F1H0J1050018	FILTER	5	
FL6701-03	F1H0J1050018	FILTER	3	
FL9004	F1H0J1050018	FILTER	1	
FL9012,13	F1H0J1050018	FILTER	2	
FL9016	F1H0J1050018	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL50001	F1H0J1050018	FILTER	1	
FL50002	F1H0J1050018	FILTER	1	
FL50005	F1H0J1050018	FILTER	1	
FL50006	F1H0J1050018	FILTER	1	
FL50007	F1H0J1050018	FILTER	1	
FL50008	F1H0J1050018	FILTER	1	
FL50009	F1H0J1050018	FILTER	1	
FL50010	F1H0J1050018	FILTER	1	
FL50011	F1H0J1050018	FILTER	1	
FL50012	F1H0J1050018	FILTER	1	
FL50013	F1H0J1050018	FILTER	1	
FL50014	F1H0J1050018	FILTER	1	
FL50016	F1H0J1050018	FILTER	1	
FL50017	F1H0J1050018	FILTER	1	
FL50018	F1H0J1050018	FILTER	1	
FL50019	F1H0J1050018	FILTER	1	
FL50020	F1H0J1050018	FILTER	1	
FL50021	F1H0J1050018	FILTER	1	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
IC3201	C3ABMG000103	IC	1	
IC3202	C1ZBZ0002277	IC	1	
IC3203	MN673744	IC	1	
IC3204,05	C0JBAB000474	IC	2	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572	IC	1	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3403,04	C3ABQG000007	IC	2	
C3406	MN85620GL	IC	1	
C4402	C0ABBB000105	IC	1	
C4403	C0FBAK000008	IC	1	
C6001	C0EBE0000130	IC	1	
C6002	C3ABQG000043	IC	1	
C6004	MN103E0500YD	IC	1	
C6006	C3CBKD000119	IC	1	
C6007	74LCX16244MT	IC	1	C0JBAZ001475
C6701	C1ZBZ0002255	IC	1	
C6702	C0JBAB000474	IC	1	
C6703	REP3496B	IC	1	(P) DIGITAL P.C.B.
C6703	REP3496BC	IC	1	(PL) DIGITAL P.C.B.
C6703	REP3496BD	IC	1	(PC) DIGITAL P.C.B.
C9001	C0DBZFE00003	IC	1	
C50001	C1DB00000895	IC	1	
C50002	C3ABPG000063	IC	1	
C50003	MN677551NA	IC	1	
C50004	C3ABPG000063	IC	1	
C50005	C0JBAR000332	IC	1	
C50006	C0JBAB000474	IC	1	
C50010	C0FBBK000035	IC	1	
C50011	C0CBCBD00002	IC	1	
C50013	C0JBAD000107	IC	1	
C50014	C0JBAF000206	IC	1	
C50015	C0CBCBD00002	IC	1	
_B3201-05	J0JHC0000032	COIL	5	
_B3401,02	J0JHC0000032	COIL	2	
_B4402,03	J0JGC0000020	COIL	2	
_B9001	J0JHC0000032	COIL	1	
_B9003	J0JHC0000045	COIL	1	
_B9005	J0JHC0000032	COIL	1	
_B9006	J0JHC0000045	COIL	1	
LB9009	J0JHC0000032	COIL	1	
_B9012	J0JHC0000045	COIL	1	
_B9013,14	J0JHC0000032	COIL	2	
_B9015,16	ERJ3GEY0R00V	1/16W 0	2	
_B9020,21	VLP0323A601T	COIL	2	J0JCC0000103
LB9038	VLP0323A601T	COIL	1	J0JCC0000103
_B50001	J0JHC0000032	COIL	1	
LB50001	ERJ3GEY0R00V	1/16W 0	1	
LB50003 LB50004	J0JHC0000032	COIL	1	
LB50004 LB50005	J0JHC0000032 J0JHC0000032	COIL	1	
LB50005 LB50006	J0JGC0000032	COIL	1	
-530000	30300000020	COIL	1	
D2404	K1MN/0.00010	CONNECTOR(40P)	4	
P3401	K1MN40A00018	CONNECTOR(40P)	1	
P6001	K1KA06A00328	CONNECTOR(6P)	1	
P9001-03	K1KB30A00135	CONNECTOR(30P)	3	
Q3201	2SR1218A	TRANSISTOR	1	
	2SB1218A			
Q3202	2SD1819A0L	TRANSISTOR	1	
26702-04	2SD0601A0L	TRANSISTOR	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR3401	UN521L	TRANSISTOR	1	UNR521L
QR3402,03	UN5213TX	TRANSISTOR	2	UNR521300L
QR9001	UN5111	TRANSISTOR	1	UNR5111
R9005	UN5213TX	TRANSISTOR	1	UNR521300L
(K3003	0N32131X	TRANSISTOR	'	ONKSZISOOL
3202	ERJ3GEY0R00V	1/16W 0	1	
R3204	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3205	ERJ3GEYJ622V	1/16W 6.2K	1	
3206	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3211,12	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3216	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682V	1/16W 6.8K	2	
R3222	ERJ3GEYJ104	1/16W 100K	1	
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	
R3226	ERJ3GEY0R00V	1/16W 0	1	
R3232	ERJ3GEYJ220V	1/16W 22	1	
R3233	ERJ3GEY0R00V	1/16W 0	1	
R3237,38	ERJ3GEY0R00V	1/16W 0	2	
R3239	ERJ3GEYJ104	1/16W 100K	1	
R3240	ERJ3GEYJ105V	1/16W 1M	1	
R3241	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R3242	ERJ3GEYJ104	1/16W 100K	1	
R3401	ERJ3GEYJ220V	1/16W 22	1	
R3403	ERJ3GEY0R00V	1/16W 0	1	
R3406	ERJ3GEYJ220V	1/16W 22	1	
R3407,08	ERJ3GEYJ820V	1/16W 82	2	
R3409	ERJ3GEYJ102V	1/16W 1K	1	
R3410	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3411	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3412	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3413,14	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3415,16	ERJ3GEYJ220V	1/16W 22	2	
R3419	ERJ3GEYJ220V	1/16W 22	1	
R3420	ERJ3GEYJ105V	1/16W 1M	1	
R3422-24	ERJ3GEYJ220V	1/16W 22	3	
R3425	ERJ3GEY0R00V	1/16W 0	1	
R3426	ERJ3GEYJ220V	1/16W 22	1	
R3427	ERJ3GEY0R00V	1/16W 0	1	
R4403,04	ERJ3RBD103V	1/16W 10K	2	
R4405,06	ERJ3RBD682V	1/16W 6.8K	2	
R4407,08	ERJ3RBD103V	1/16W 10K	2	
	ERJ3GEYJ221V	1/16W 220	1	
R4412-15	ERJ3GEY0R00V	1/16W 0	4	
R6001,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6003,04	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6005	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6007-09	ERJ3GEYJ470V	1/16W 47	3	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6013,14	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002

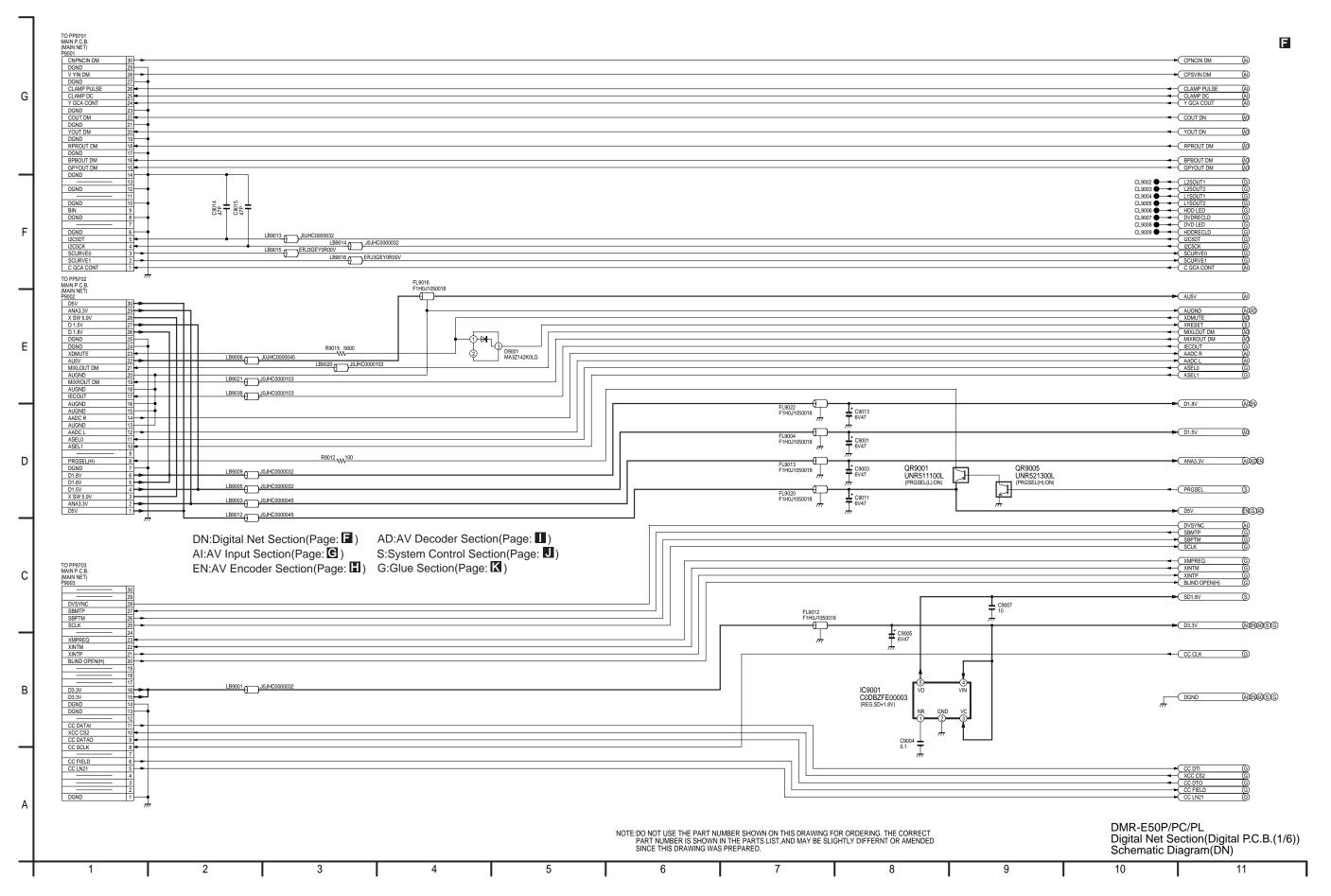
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6017	ERJ3GEYJ470V	1/16W 47	1	
R6019	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6020	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6021	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6022	ERJ3GEYJ221V	1/16W 220	1	
R6024	ERJ3GEY0R00V	1/16W 0	1	
R6701,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6704,05	ERJ3GEYJ470V	1/16W 47	2	
R6706	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6707	ERJ3GEYJ104	1/16W 100K	1	
R6708	ERJ3GEY0R00V	1/16W 0	1	
R6709-18	ERJ3GEYJ470V	1/16W 47	10	
R6719	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6720,21	ERJ3GEYJ470V	1/16W 47	2	
R6722	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6723,24	ERJ3GEYJ470V	1/16W 47	2	
R6728	ERJ3GEYJ104	1/16W 100K	1	
R6730	ERJ3GEYJ102V	1/16W 1K	1	
R6739	ERJ3GEYJ470V	1/16W 47	1	
R6742	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6745	ERJ3GEYJ470V	1/16W 47	1	
R6746	ERJ3GEY0R00V	1/16W 0	1	
R6748	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6759	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6761	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R9012	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R50001	ERJ3GEYJ220V	1/16W 22	1	2002002071002
R50002-04	ERJ3GEYJ470V	1/16W 47	3	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R50007	ERJ3GEYJ220V	1/16W 22	1	DOODTOODAGG
R50008-10	ERJ3GEYJ470V	1/16W 47	3	
R50012	ERJ3GEY0R00V	1/16W 0	1	
R50013	ERJ3RBD153	1/16W 15K	1	
R50014	ERJ3GEYJ820V	1/16W 82	1	
R50015	ERJ3RBD153	1/16W 15K	1	
R50016	ERJ3GEYJ470V	1/16W 47	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018	ERJ3GEY0R00V	1/16W 0	1	
R50021	ERJ3GEYJ220V	1/16W 22	1	
R50022	ERJ3GEYJ102V	1/16W 1K	1	D0CD220 IA002
R50023	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50024	ERJ3GEY0R00V	1/16W 0	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/16W 1K	1	Doopoo Hees
R50027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	
R50031	ERJ3GEYJ102V	1/16W 1K	1	
R50032	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00V	1/16W 0	1	
R50034	ERJ3RED360V	1/16W 36	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	

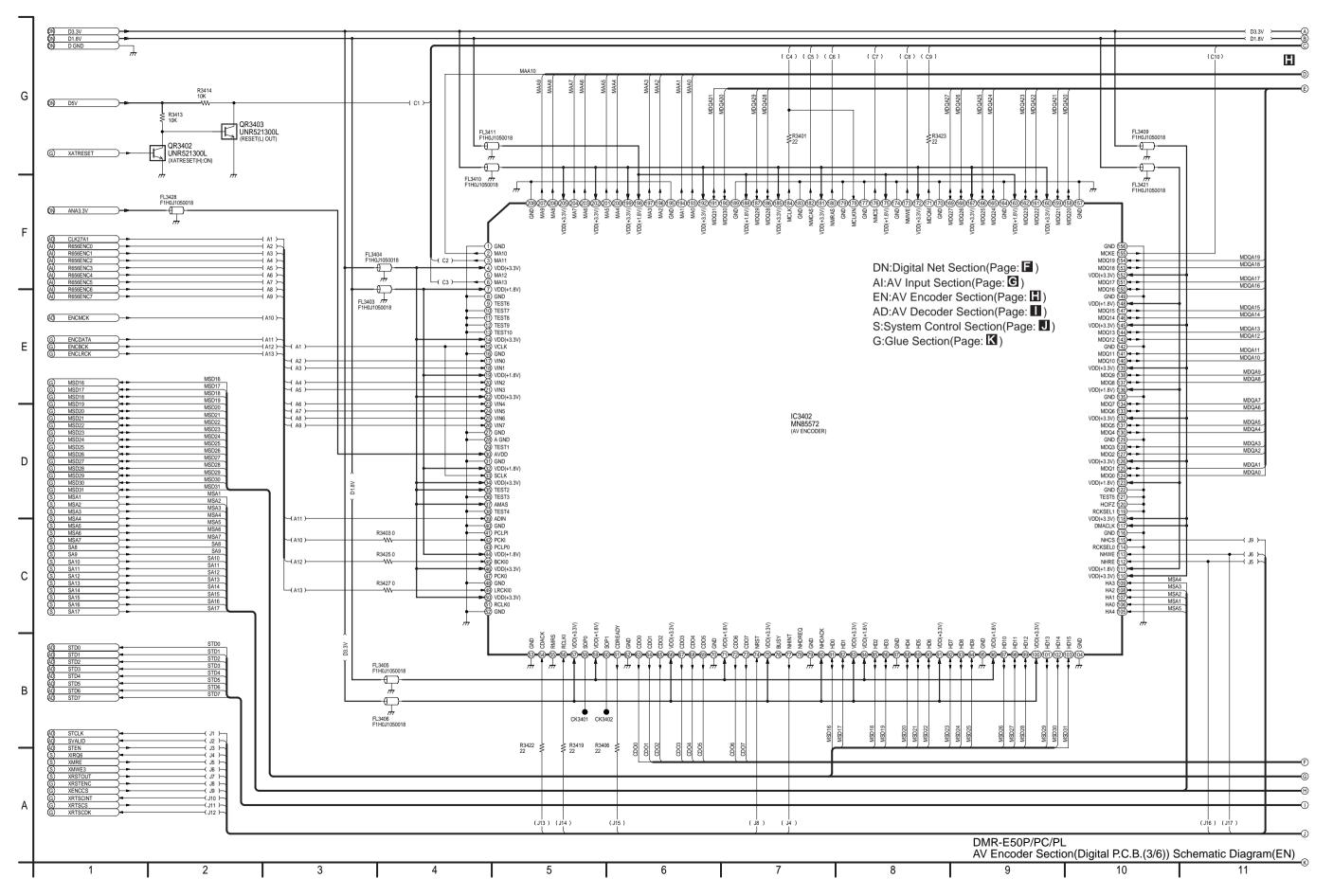
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00V	1/16W 0	1	
R50038	ERJ3RED360V	1/16W 36	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50041	ERJ3GEY0R00V	1/16W 0	1	
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00V	1/16W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223	1/16W 22K	1	
R50052	ERJ3GEY0R00V	1/16W 0	1	
			3	
R50053-55	ERJ3GEYJ470V	1/16W 47		
R50058	ERJ3GEYJ220V	1/16W 22	1	
R50060	ERJ3GEY0R00V	1/16W 0	1	
RA3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RA3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RA3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RA3213,14	D1H82204A024	RESISTOR-RESISTOR	2	
RA3401-16	D1H82204A024	RESISTOR-RESISTOR	16	
RA3419-24	D1H81034A024	RESISTOR-RESISTOR	6	
RA3425,26	D1H82204A024	RESISTOR-RESISTOR	2	
RA3433	D1H82204A024	RESISTOR-RESISTOR	1	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RA3439-41	D1H82204A024	RESISTOR-RESISTOR	3	
R A50009	D1H82204A024	RESISTOR-RESISTOR	1	
RA50010	D1H82204A024	RESISTOR-RESISTOR	1	
RA50011	D1H82204A024	RESISTOR-RESISTOR	1	
RA50012	D1H82204A024	RESISTOR-RESISTOR	1	
RA50012	D1H82204A024	RESISTOR-RESISTOR	1	
RA50014	D1H82204A024	RESISTOR-RESISTOR	1	
RA50015	D1H82204A024	RESISTOR-RESISTOR	1	
RA50016	D1H82204A024	RESISTOR-RESISTOR	1	
RA50017	D1H81034A024	RESISTOR-RESISTOR	1	
RA50018	D1H82204A024	RESISTOR-RESISTOR	1	
RA50019	D1H82204A024	RESISTOR-RESISTOR	1	
RA50020	D1H82204A024	RESISTOR-RESISTOR	1	
RA50021	D1H82204A024	RESISTOR-RESISTOR	1	
RA50022	D1H82204A024	RESISTOR-RESISTOR	1	
RA50023	D1H82204A024	RESISTOR-RESISTOR	1	
RA50024	D1H82204A024	RESISTOR-RESISTOR	1	
RA50025	D1H82204A024	RESISTOR-RESISTOR	1	
RA50026	D1H84704A024	RESISTOR-RESISTOR	1	
RA50027	D1H84704A024	RESISTOR-RESISTOR	1	
RA50028	D1H84704A024	RESISTOR-RESISTOR	1	
RA50029	D1H84704A024	RESISTOR-RESISTOR	1	
RX6001,02	D1H83334A024	RESISTOR-RESISTOR	2	
RX6003-05	D1H83324A024	RESISTOR-RESISTOR	3	
RX6006	D1H81034A024	RESISTOR-RESISTOR	1	
RX6007,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX6009-12	D1H84704A024	RESISTOR-RESISTOR	4	i i

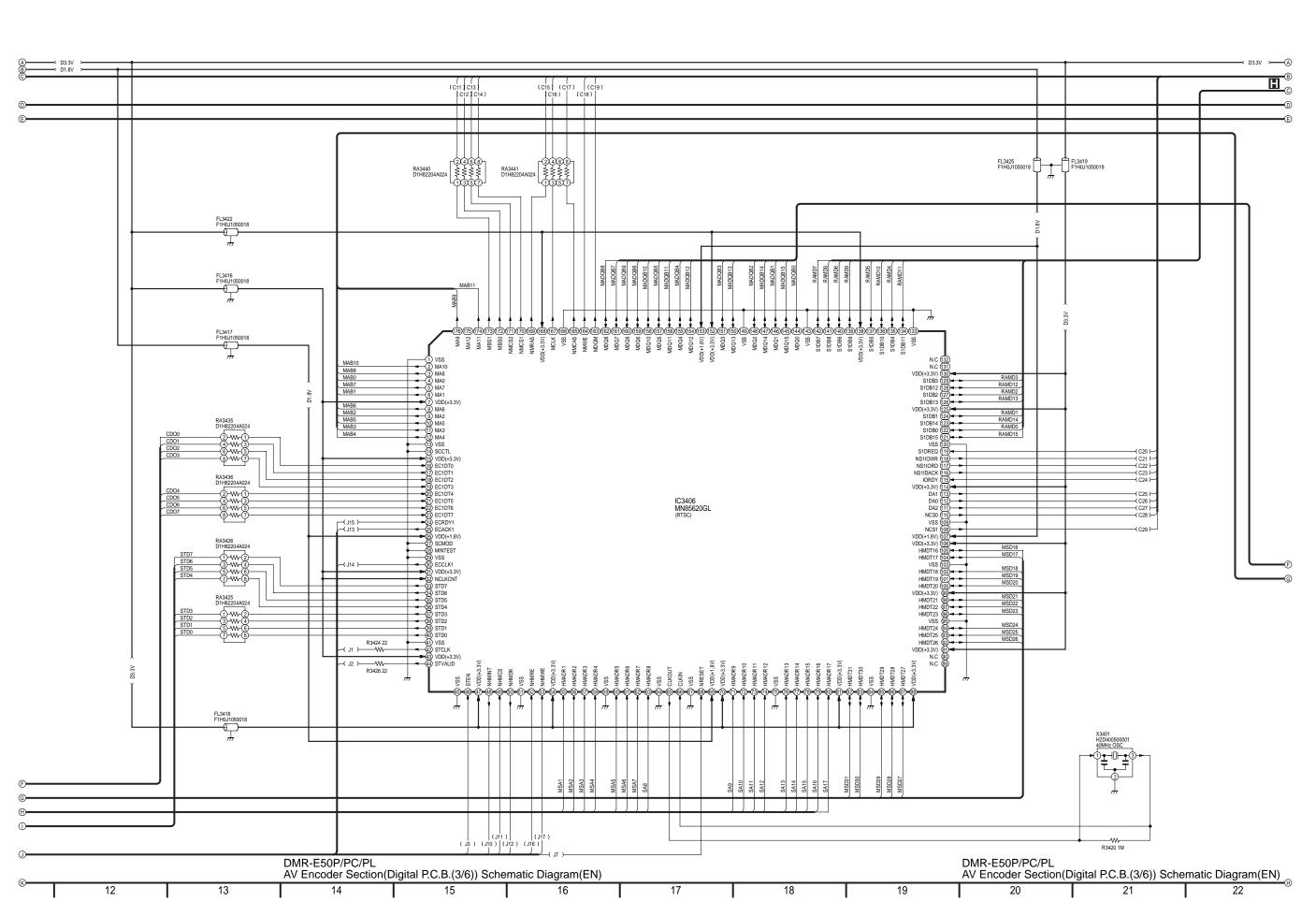
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RX6018	D1H84704A024	RESISTOR-RESISTOR	1	
RX6019	D1H83304A024	RESISTOR-RESISTOR	1	
RX6020	D1H84704A024	RESISTOR-RESISTOR	1	
RX6021	D1H83304A024	RESISTOR-RESISTOR	1	
RX6022	D1H84704A024	RESISTOR-RESISTOR	1	
RX6025	D1H83304A024	RESISTOR-RESISTOR	1	
RX6026	D1H84704A024	RESISTOR-RESISTOR	1	
RX6027	D1H81034A024	RESISTOR-RESISTOR	1	
RX6030-33	D1H84704A024	RESISTOR-RESISTOR	4	
RX6034-48	D1H83304A024	RESISTOR-RESISTOR	15	
RX6701,02	D1H83324A024	RESISTOR-RESISTOR	2	
RX6703	D1H81034A024	RESISTOR-RESISTOR	1	
RX6704	D1H84724A024	RESISTOR-RESISTOR	1	
RX6705	D1H81034A024	RESISTOR-RESISTOR	1	
RX6706-13	D1H84704A024	RESISTOR-RESISTOR	8	
RX6714	D1H81034A024	RESISTOR-RESISTOR		
			1 -	
RX6715-19	D1H84704A024	RESISTOR-RESISTOR	5	
RX6720	D1H81034A024	RESISTOR-RESISTOR	1	
RX6721-28	D1H84704A024	RESISTOR-RESISTOR	8	
RX6729	D1H83334A024	RESISTOR-RESISTOR	1	
RX6730	D1H84704A024	RESISTOR-RESISTOR	1	
RX6731	D1H82224A024	RESISTOR-RESISTOR	1	
RX6732	D1H84704A024	RESISTOR-RESISTOR	1	
RX6733	D1H83334A024	RESISTOR-RESISTOR	1	
RX6735-38	D1H84704A024	RESISTOR-RESISTOR	4	
RX6739,40	D1H83334A024	RESISTOR-RESISTOR	2	
RX6741-44	D1H83324A024	RESISTOR-RESISTOR	4	
RX6745	D1H83334A024	RESISTOR-RESISTOR	1	
RX6746	D1H81034A024	RESISTOR-RESISTOR	1	
RX6747	D1H83324A024	RESISTOR-RESISTOR	1	
RX6748,49	D1H84724A024	RESISTOR-RESISTOR	2	
X3202	H0J540500006	CRYSTAL OSCILLATOR	1	
X3401	H2D400500001	CRYSTAL OSCILLATOR	1	
X6001	H2D330500001	CRYSTAL OSCILLATOR	1	
~	05	REP3528AB		
C7001	ECJ1VF1A105Z	10V 1U	1	
C7003	ECJ1VF1C104Z	16V 0.1U	1	
C7004	ECJ1VB1H103K	50V 0.01U	1	
IR7001	PNA4618M13VT	REMOTE SENSOR	1	
JK7001	K1U413A00005	JACK,S-VIDEO IN	1	
K7002	ERJ3GEY0R00V	1/16W 0	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
P7001	K1KA20B00132	CONNECTOR(20P)	1	
R7002	ERJ3GEYJ102V	1/16W 1K	1	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
		., 1011 10	,	

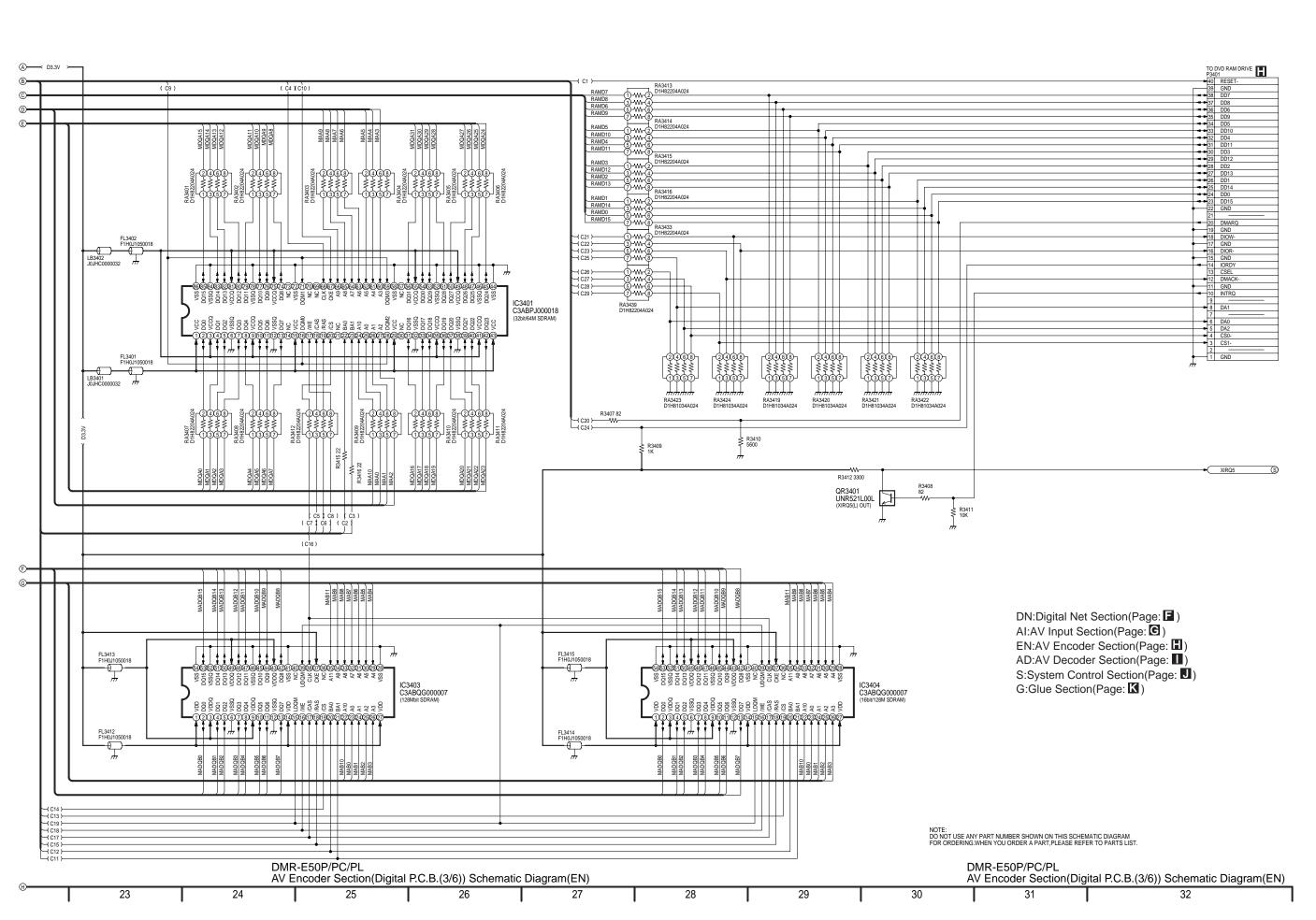
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7011	ERDS2FJ330	1/4W 33	1	
S7003	EVQ11G07K	SWITCH(POWER)	1	
~	06	REP3528BA		
D7801	B3ABA0000396	DIODE	1	
P7801	K1KA10B00196	CONNECTOR(10P)	1	
QR7801	UN2214TX	TRANSISTOR	1	UNR221400L
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD222V	1/16W 2.2K	1	
R7804	ERJ3RBD332	1/16W 3.3K	1	
R7807	ERJ3RBD122V	1/16W 1.2K	1	
R7808	ERJ3RBD152V	1/16W 1.5K	1	
R7809	ERJ3RBD222V	1/16W 2.2K	1	
R7810	ERJ3RBD332	1/16W 3.3K	1	
R7811	ERJ3RBD562V	1/16W 5.6K	1	
R7814	ERJ3RBD122V	1/16W 1.2K	1	
R7821	ERDS2FJ221	1/4W 220	1	
	ERDS2FJ221	1/4W 220	'	
S7801	K0L1BA000056	CW/TCH/TD AV\	1	
S7801		SWITCH(TRAY)		
	EVQ11G07K	SWITCH(REC)	1	
S7803	EVQ11G07K	SWITCH(CH-DOWN)	1	
S7804	EVQ11G07K	SWITCH(SKIP-R)	1	
S7805	EVQ11G07K	SWITCH(STOP)	1	
S7808	EVQ11G07K	SWITCH(CH-UP)	1	
S7809	EVQ11G07K	SWITCH(MODE)	1	
S7810	EVQ11G07K	SWITCH(ERASE)	1	
S7811	EVQ11G07K	SWITCH(TIME-WARP)	1	
S7812	EVQ11G07K	SWITCH(PLAY)	1	
S7815	EVQ11G07K	SWITCH(SKIP-F)	1	
S7816	EVQ11G07K	SWITCH(OPEN/CLOSE)	1	
~				
		JIG TOOLS		
	RFKZ0164	EXTENTION CABLE	1	DIGITAL (30pin×3)
	RFKZ0165	EXTENTION CABLE	1	FRONT(L) (20pin)
	RFKZ0166	EXTENTION CABLE	1	FRONT(R) (10pin)
	RFKZ0168	EXTENTION CABLE	1	FAN MOTOR (3pin)
	RFKZ0125	EXTENTION FFC	1	RAM-DIGITAL (40pin)
	RFKZ0170	EXTENTION CABLE	1	POWER SUPPLY-MAIN (19pin)
	RFKZ0171	EXTENTION CABLE	1	POWER SUPPLY-MAIN (15pin)

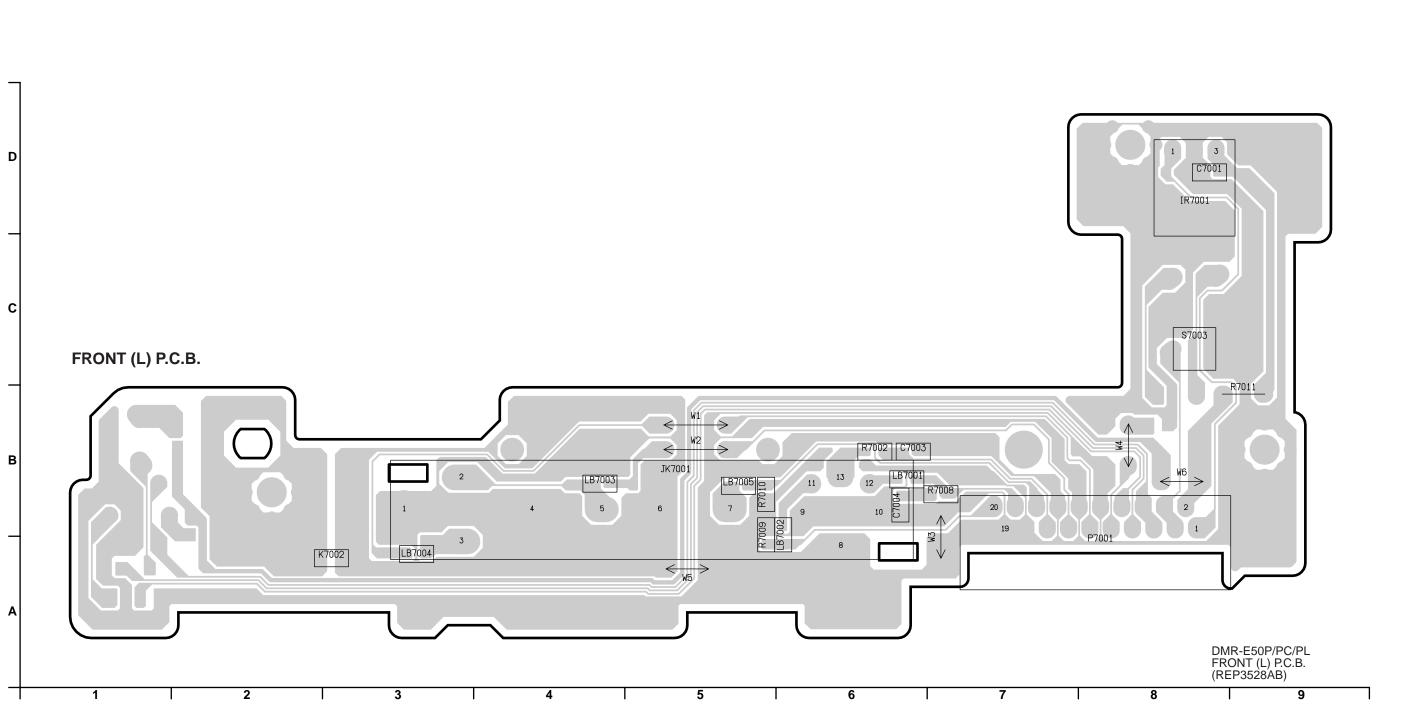
18. Schematic Diagram for printing with A4

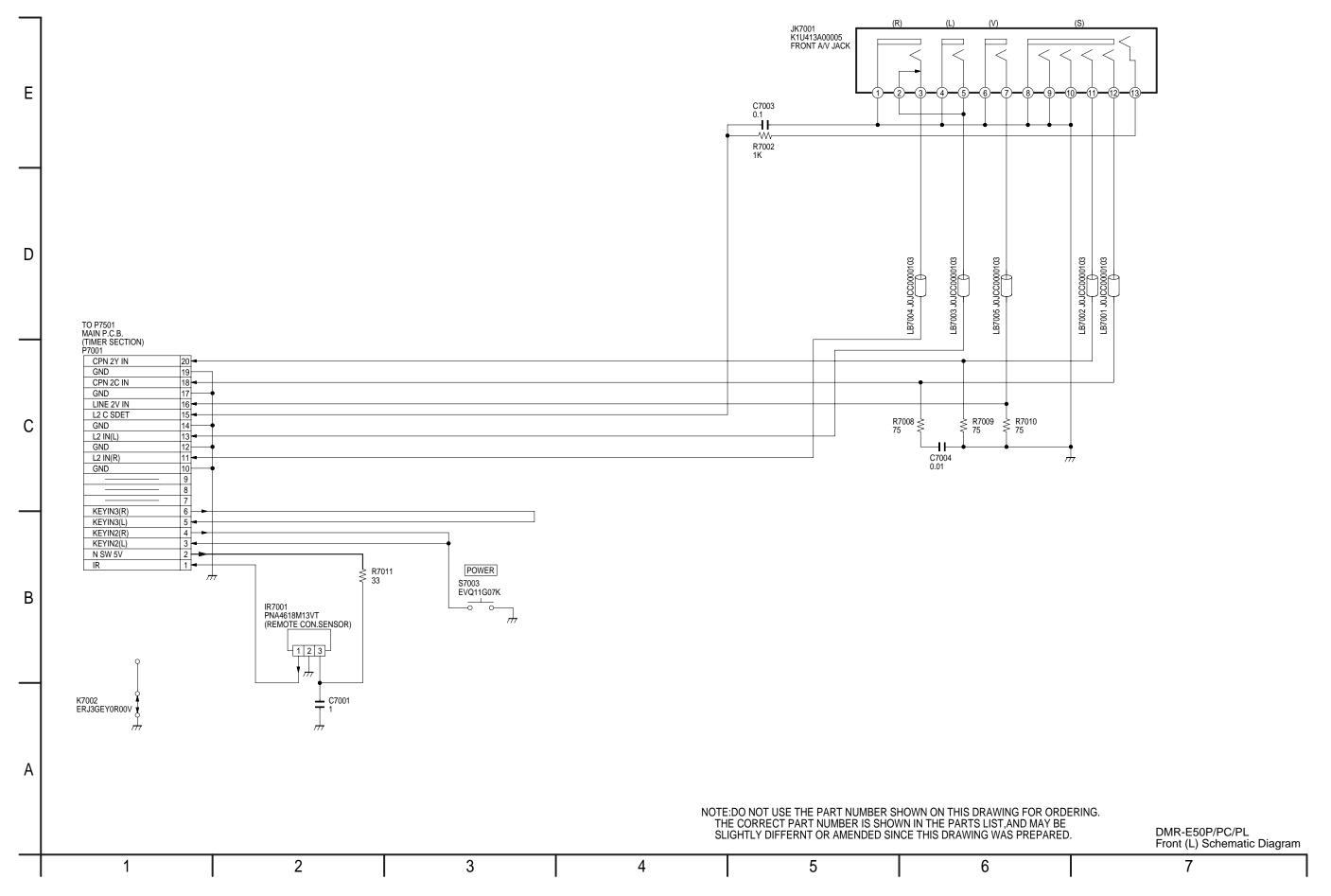


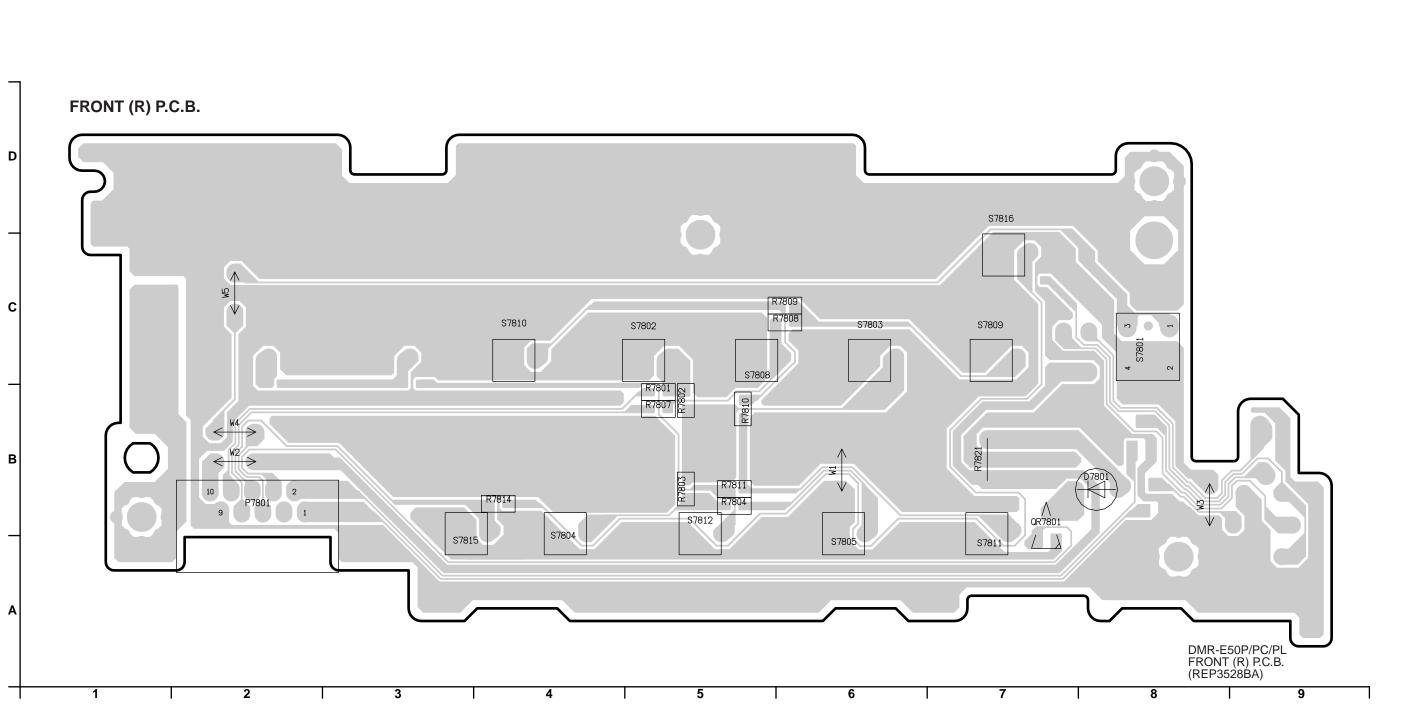


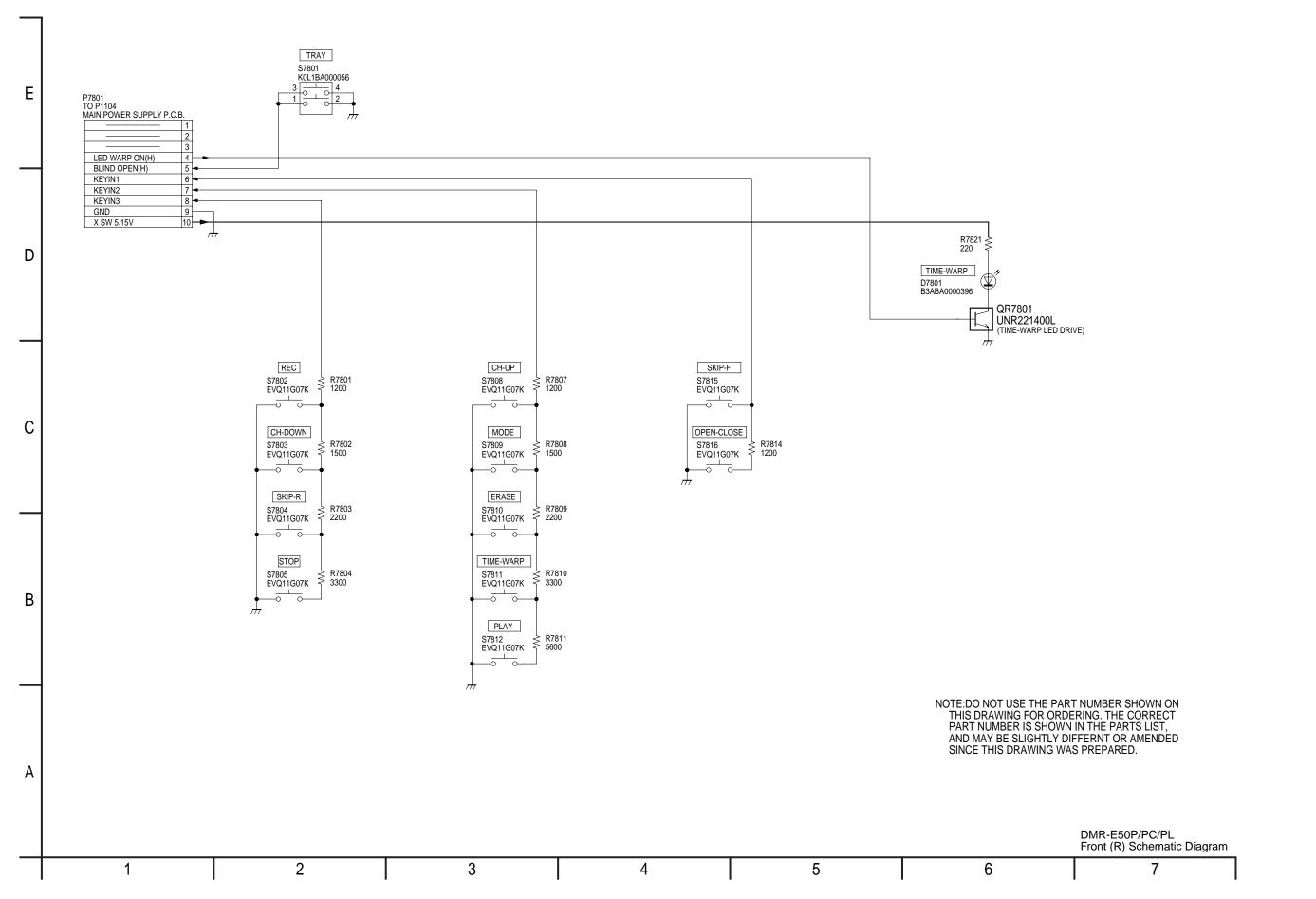




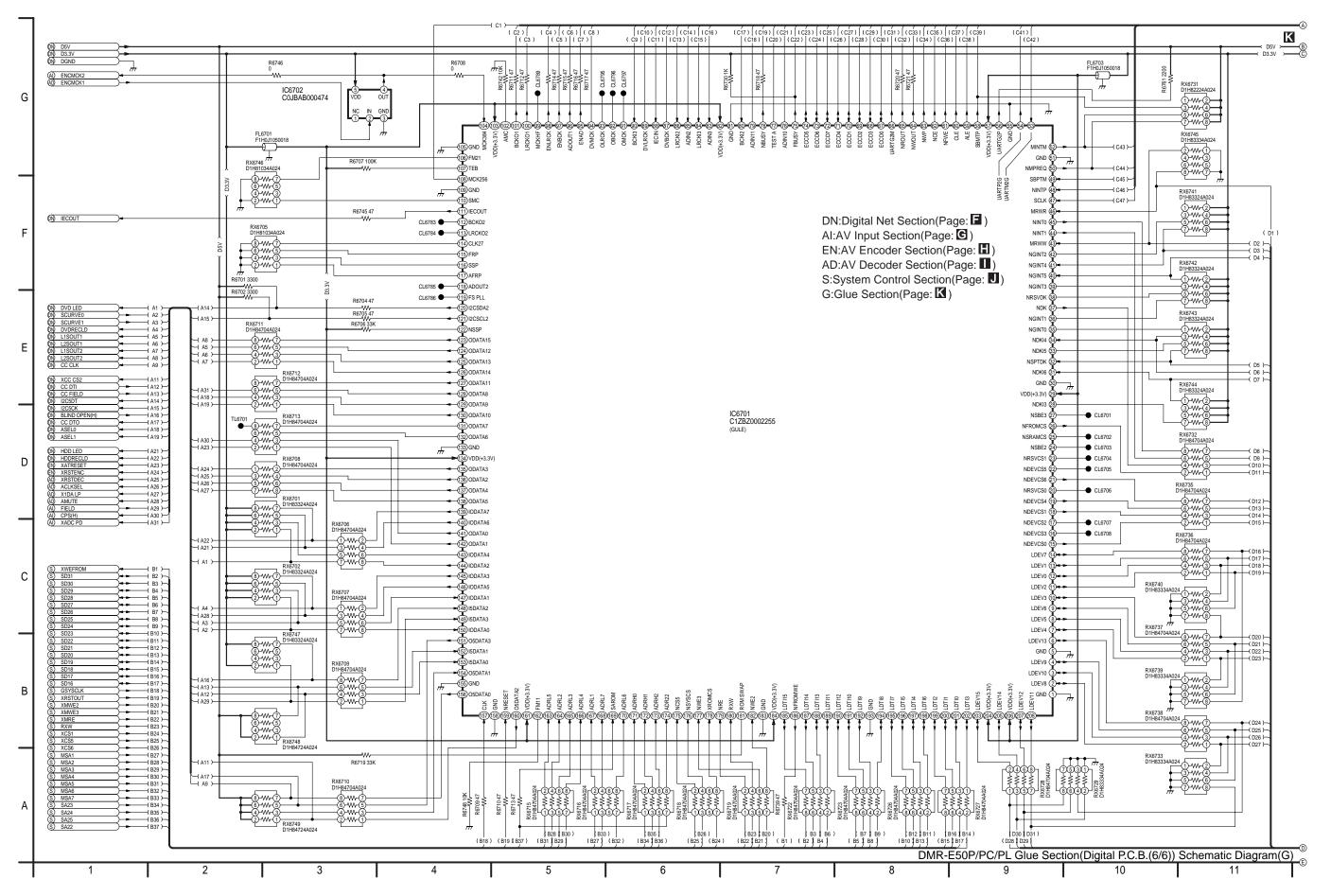


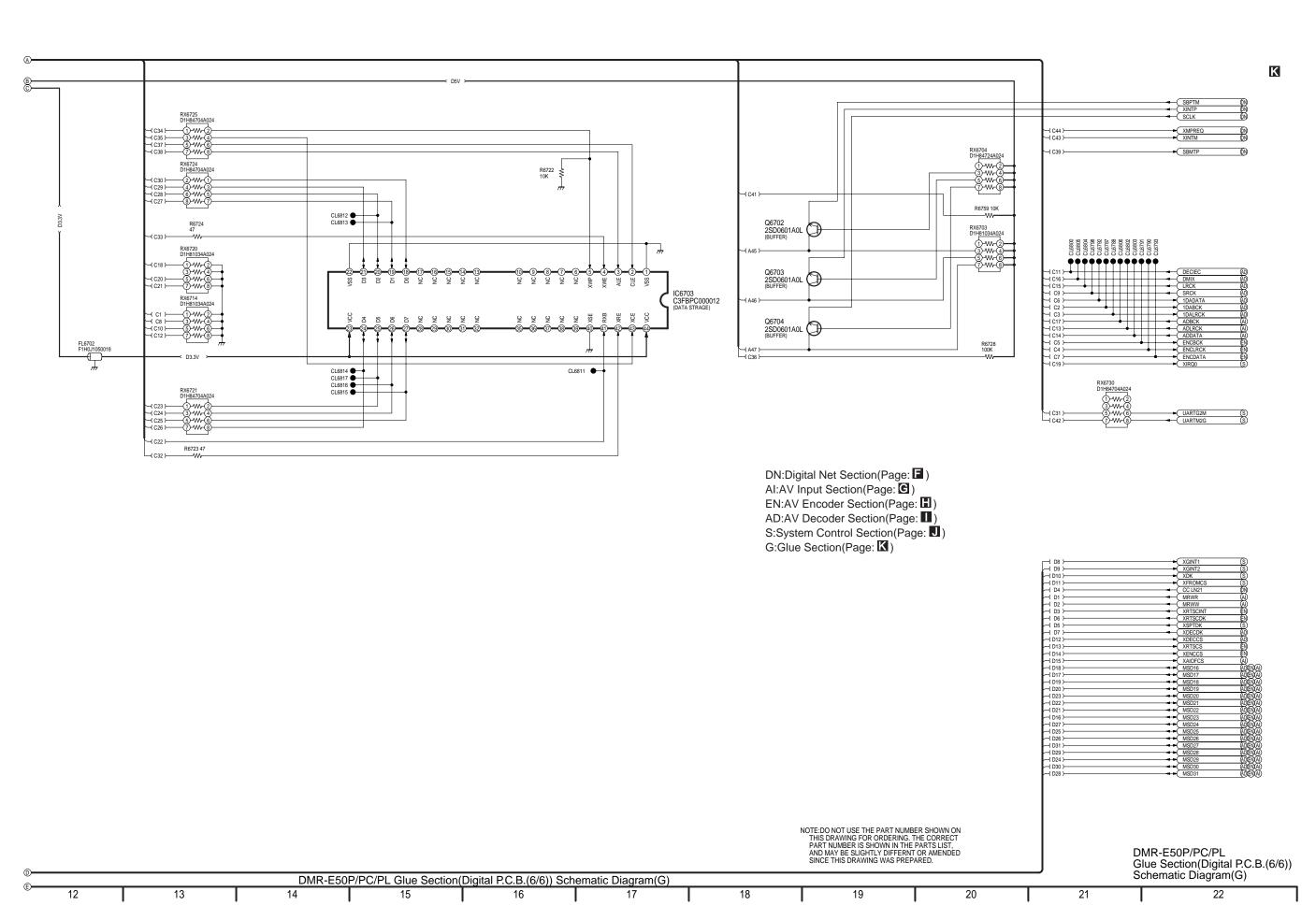


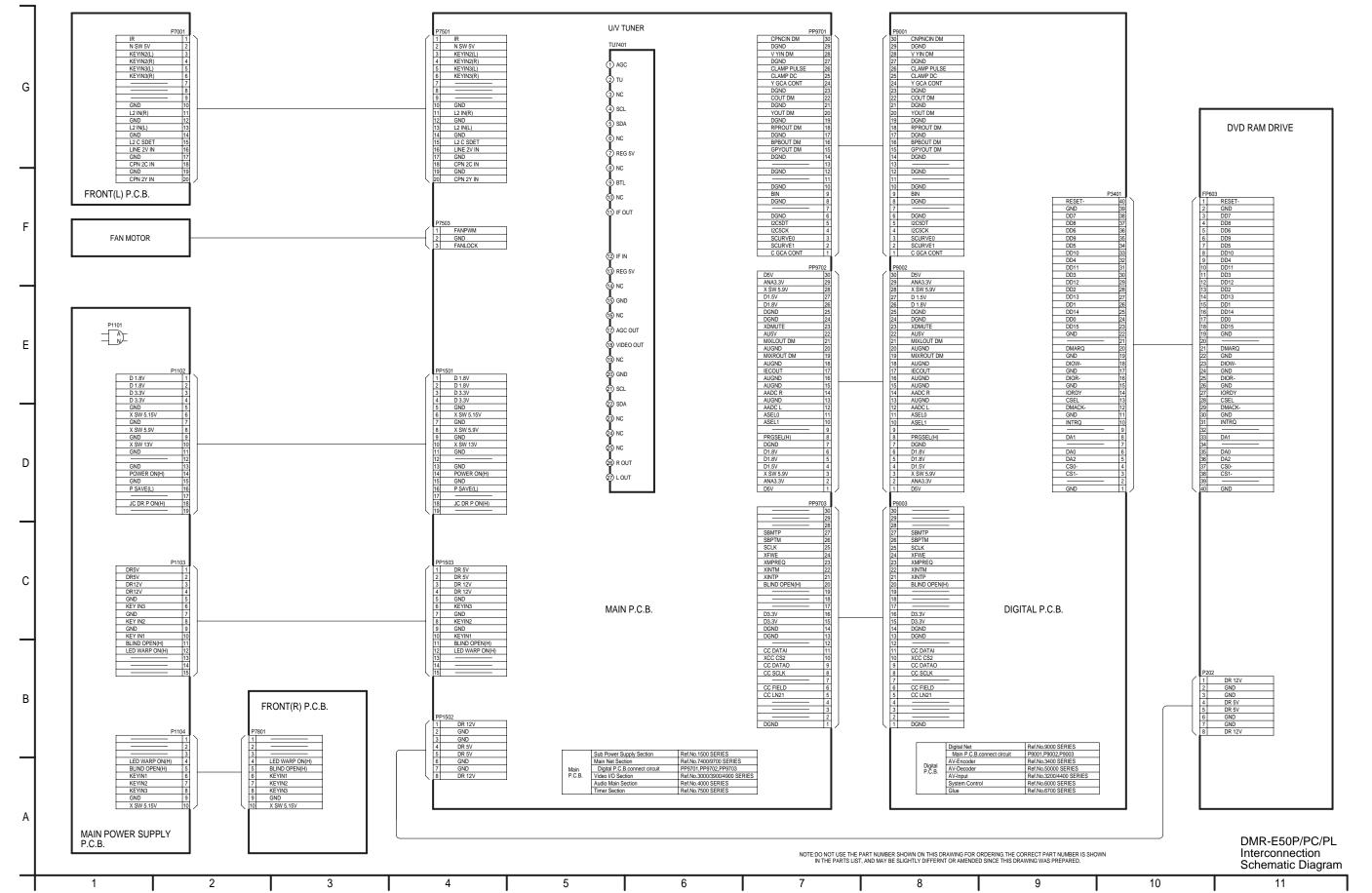


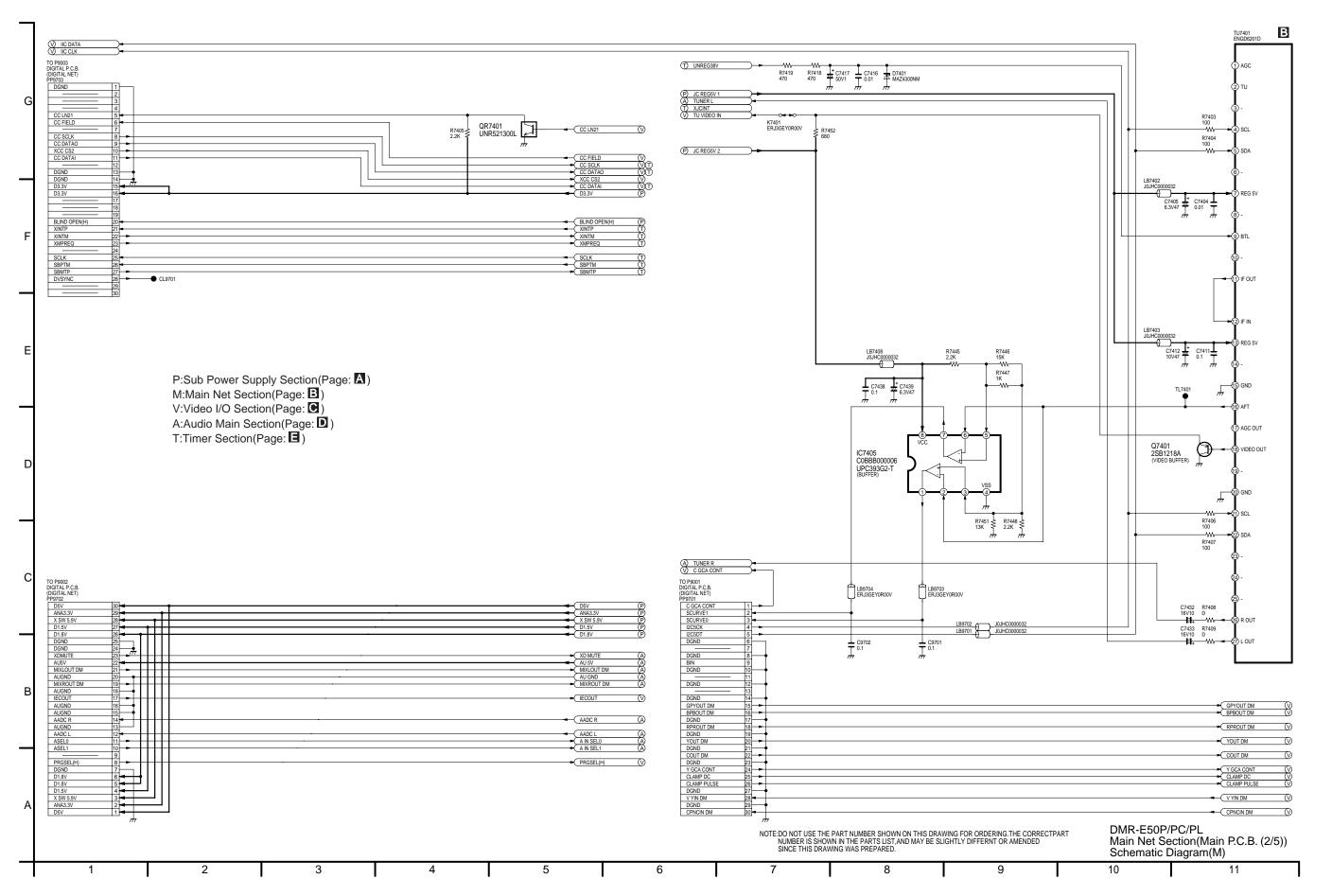


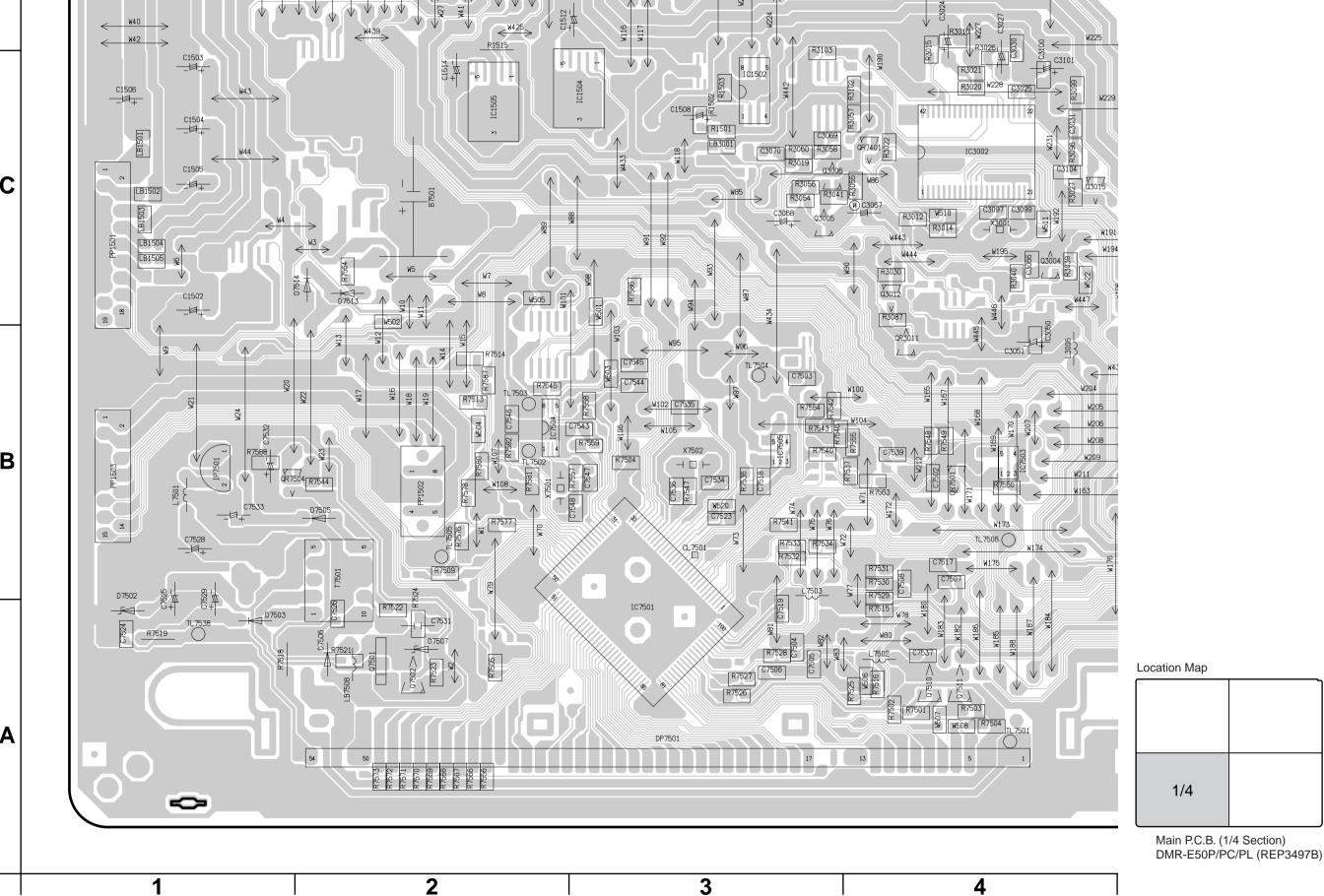
Ref No.		QR7801	
MODE	Е	С	В
REC	0	3.5	0
PLAY	0	3.5	0
STOP	0	3.5	0
310P	U	3.3	U
Ì			





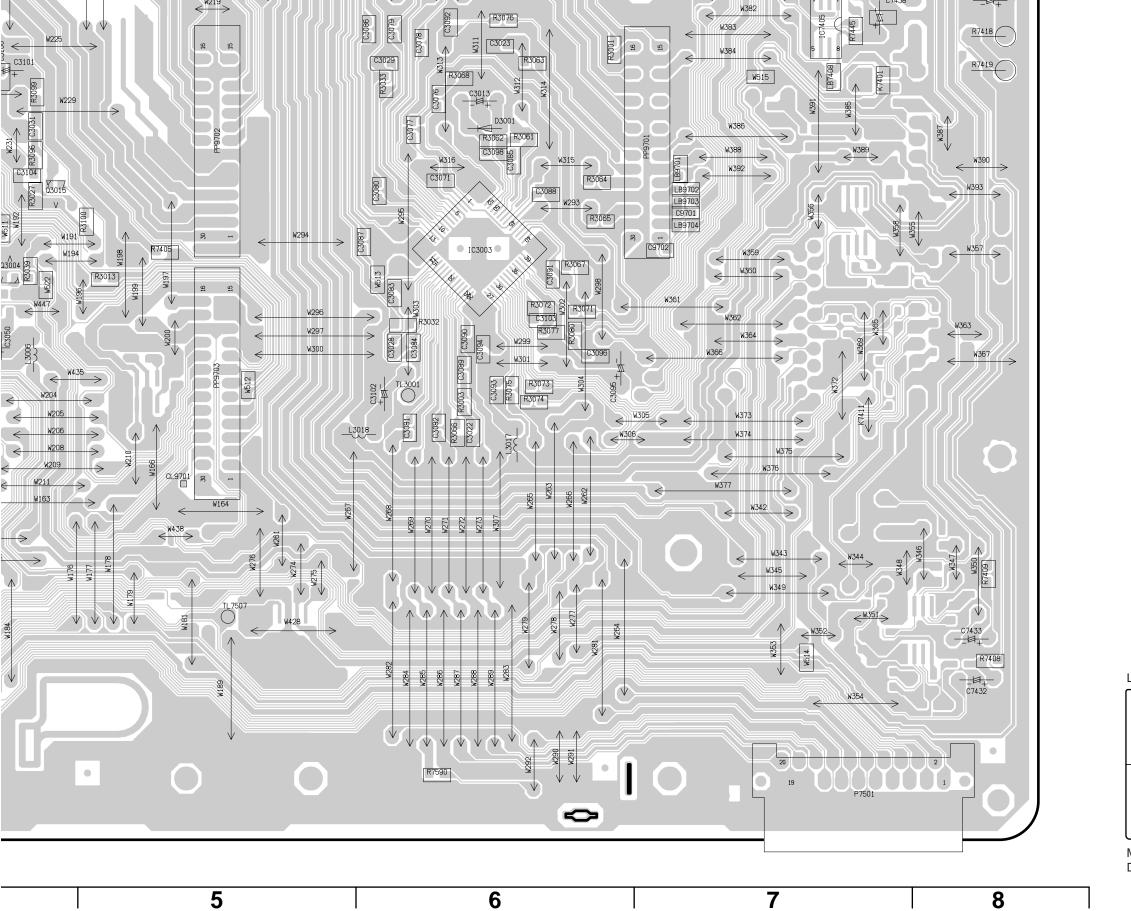


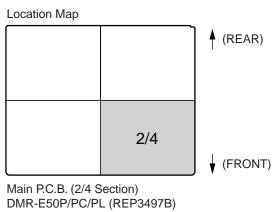




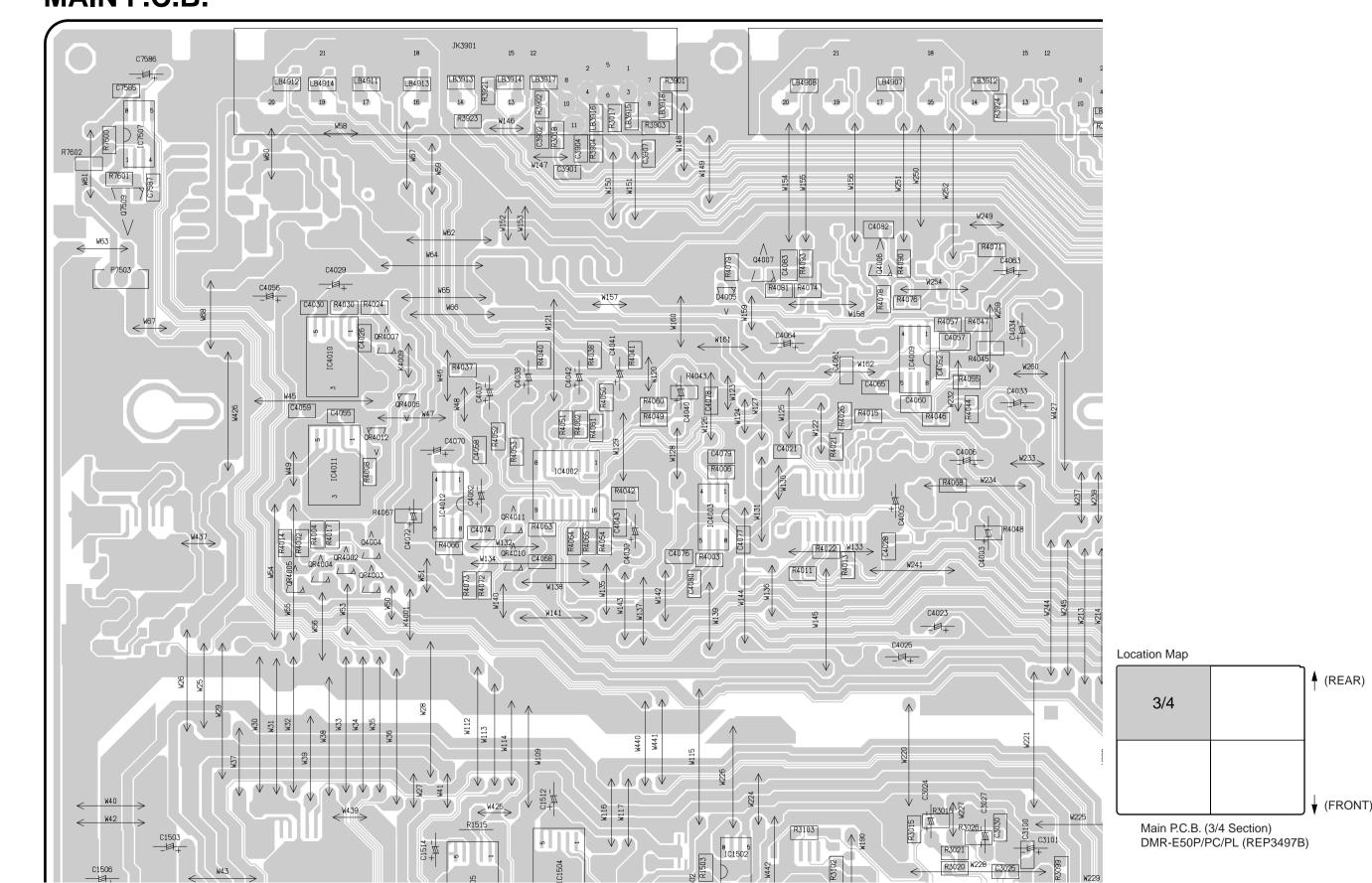
(REAR)

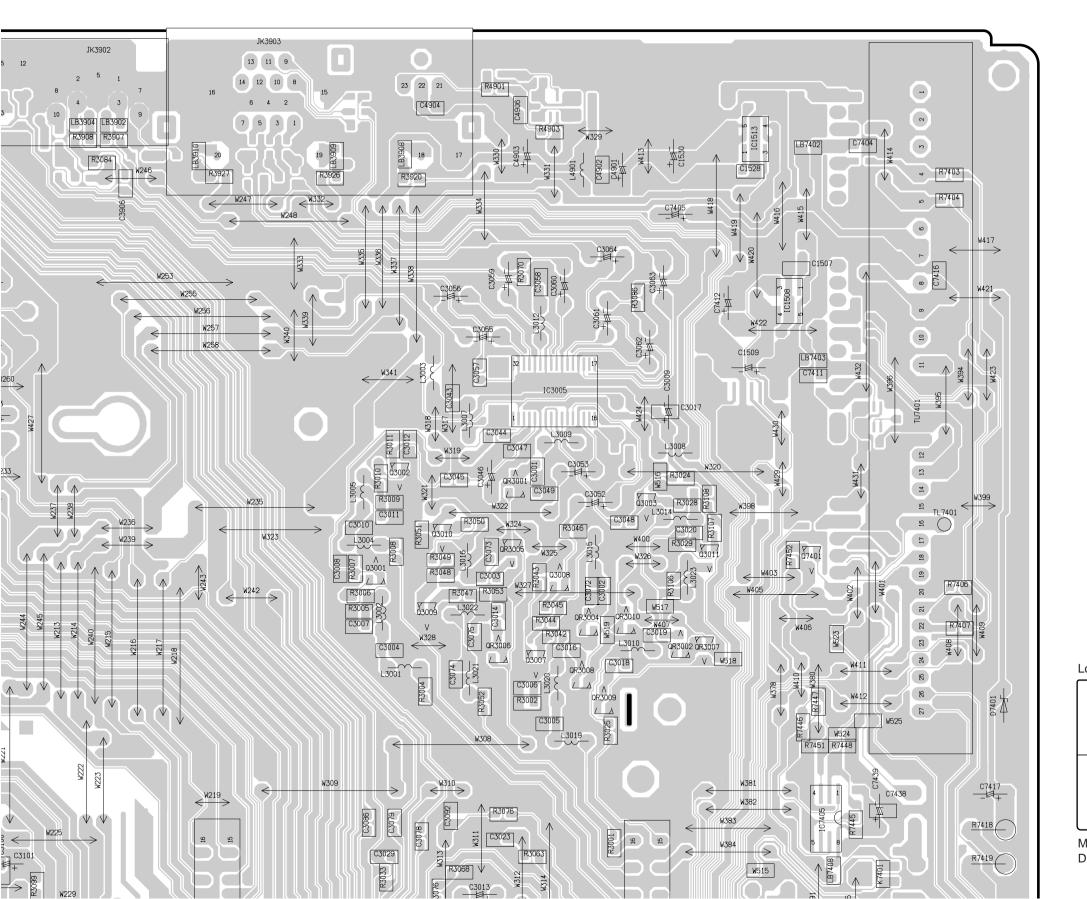
(FRONT)





MAIN P.C.B.



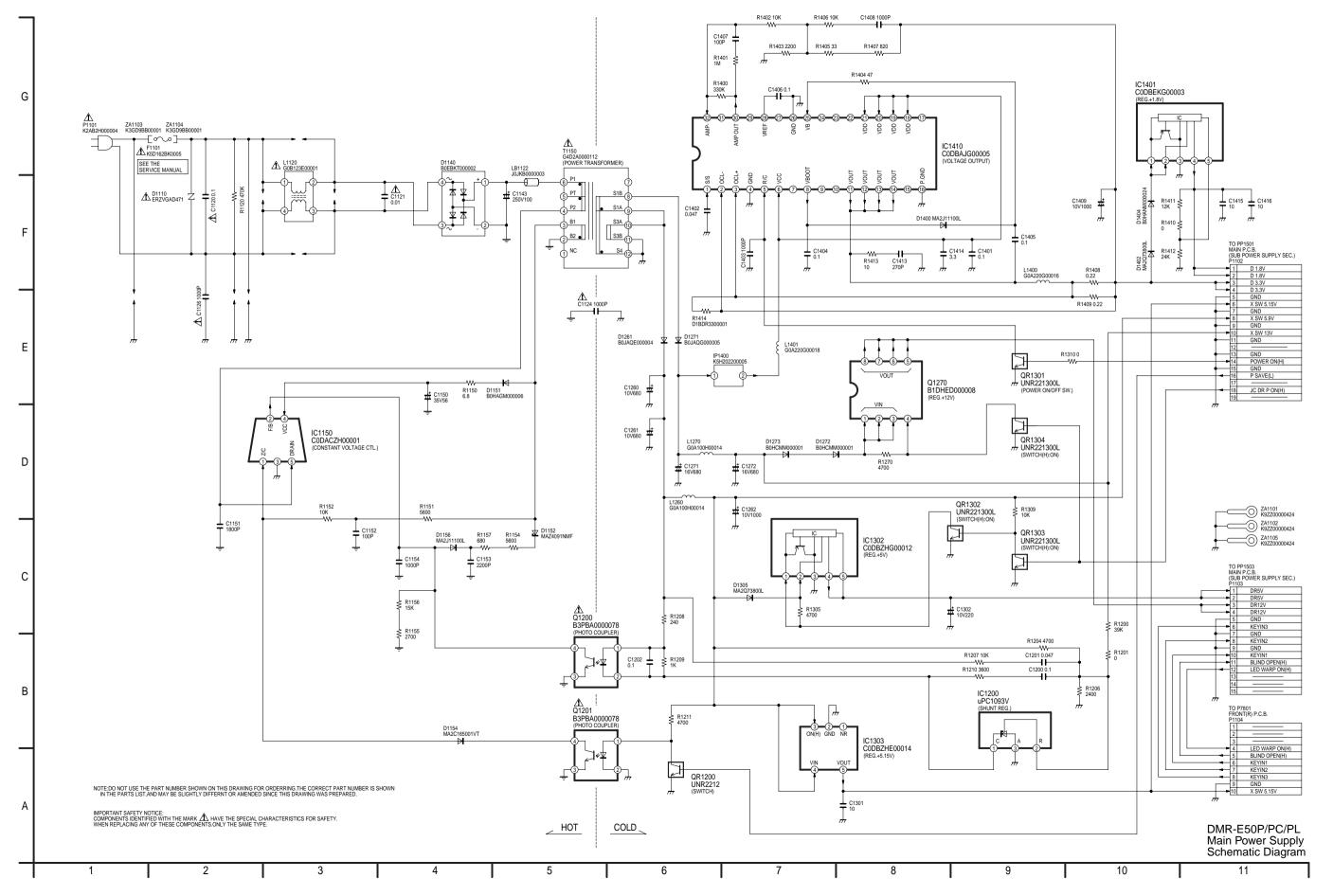


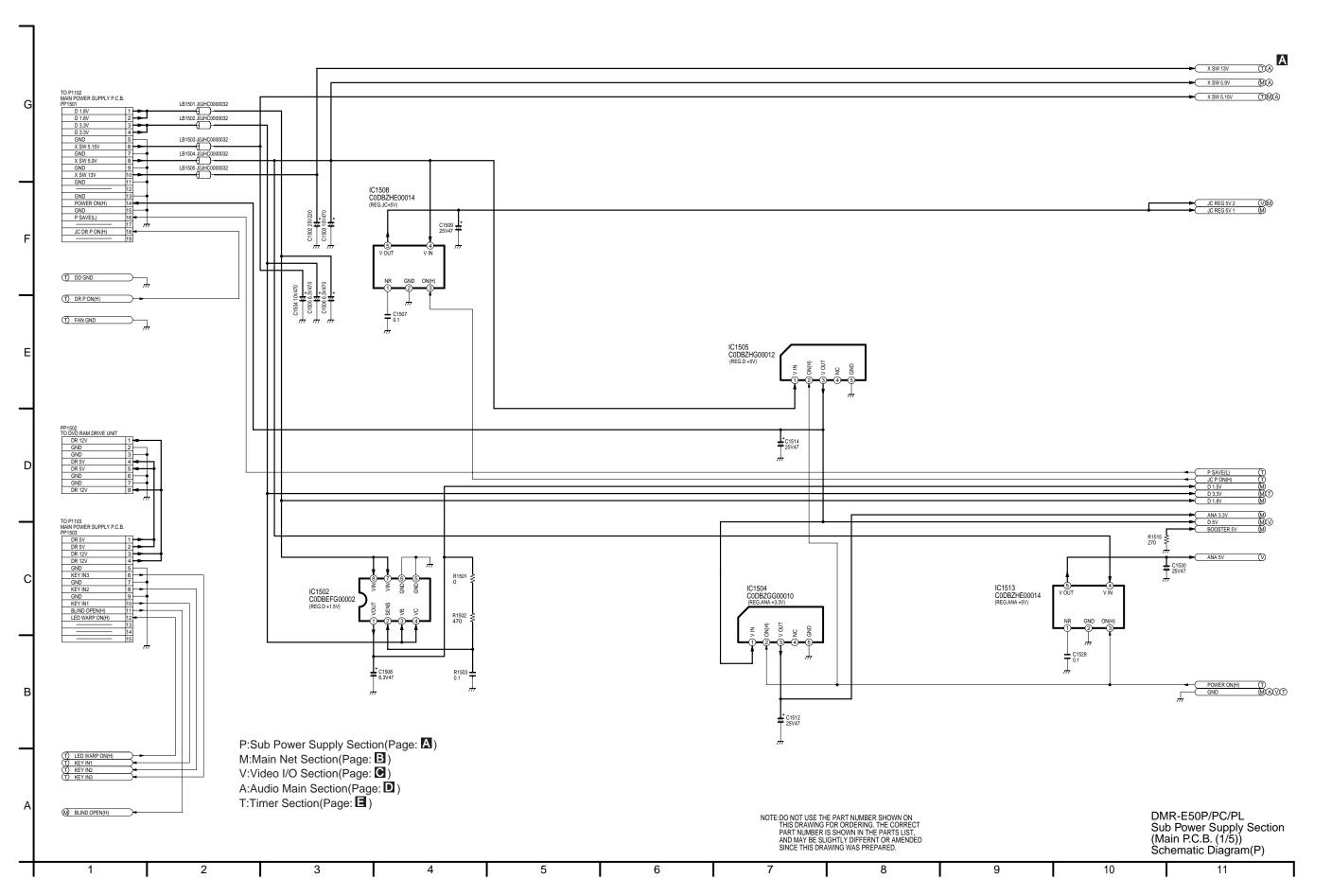
Location Map

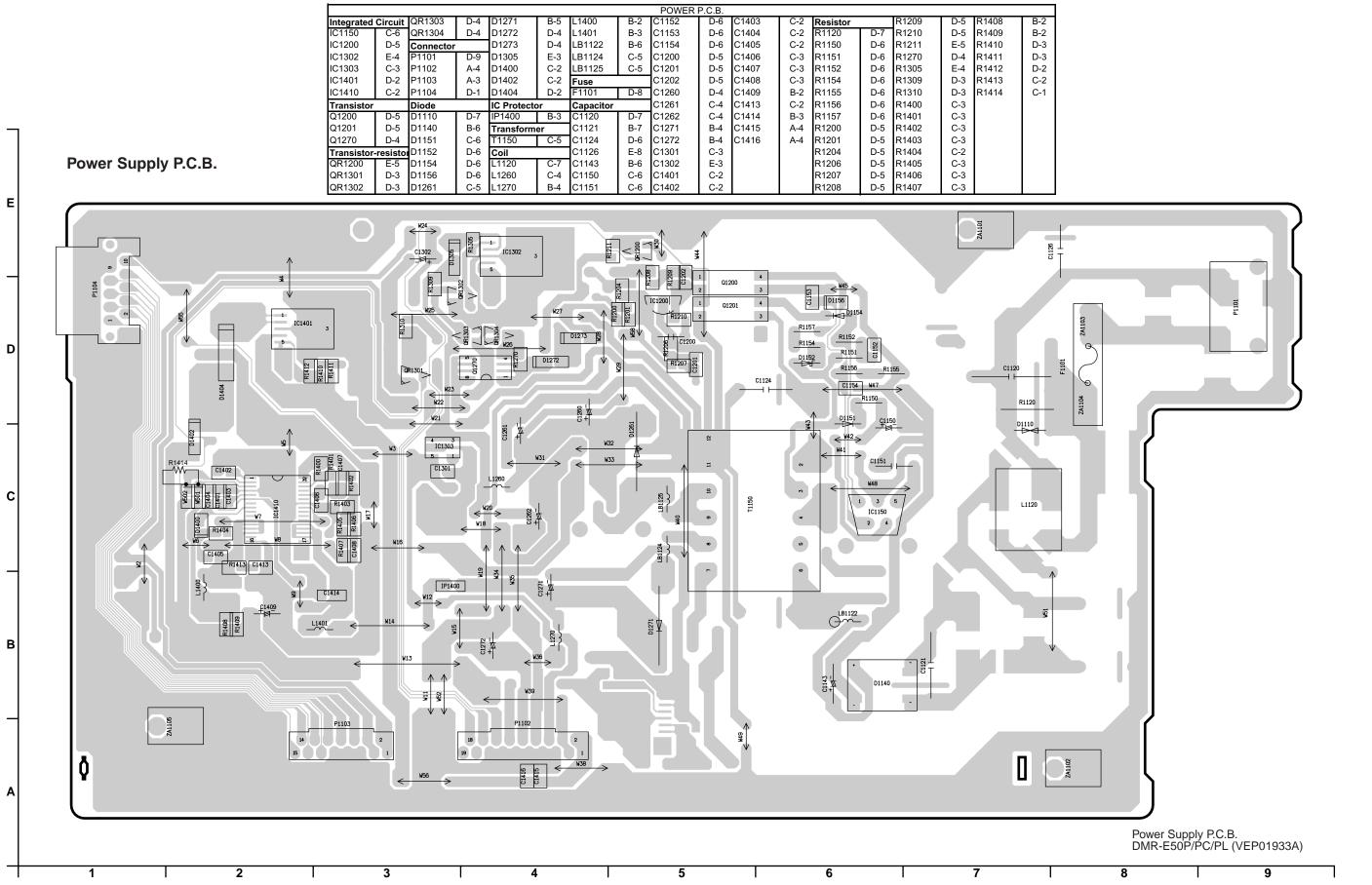
Cocation Map		
		(REAR)
	4/4	
	4/4	
		(FRONT)
		· • · · · · · · · · · · · · · · · · · ·

Main P.C.B. (4/4 Section) DMR-E50P/PC/PL (REP3497B)

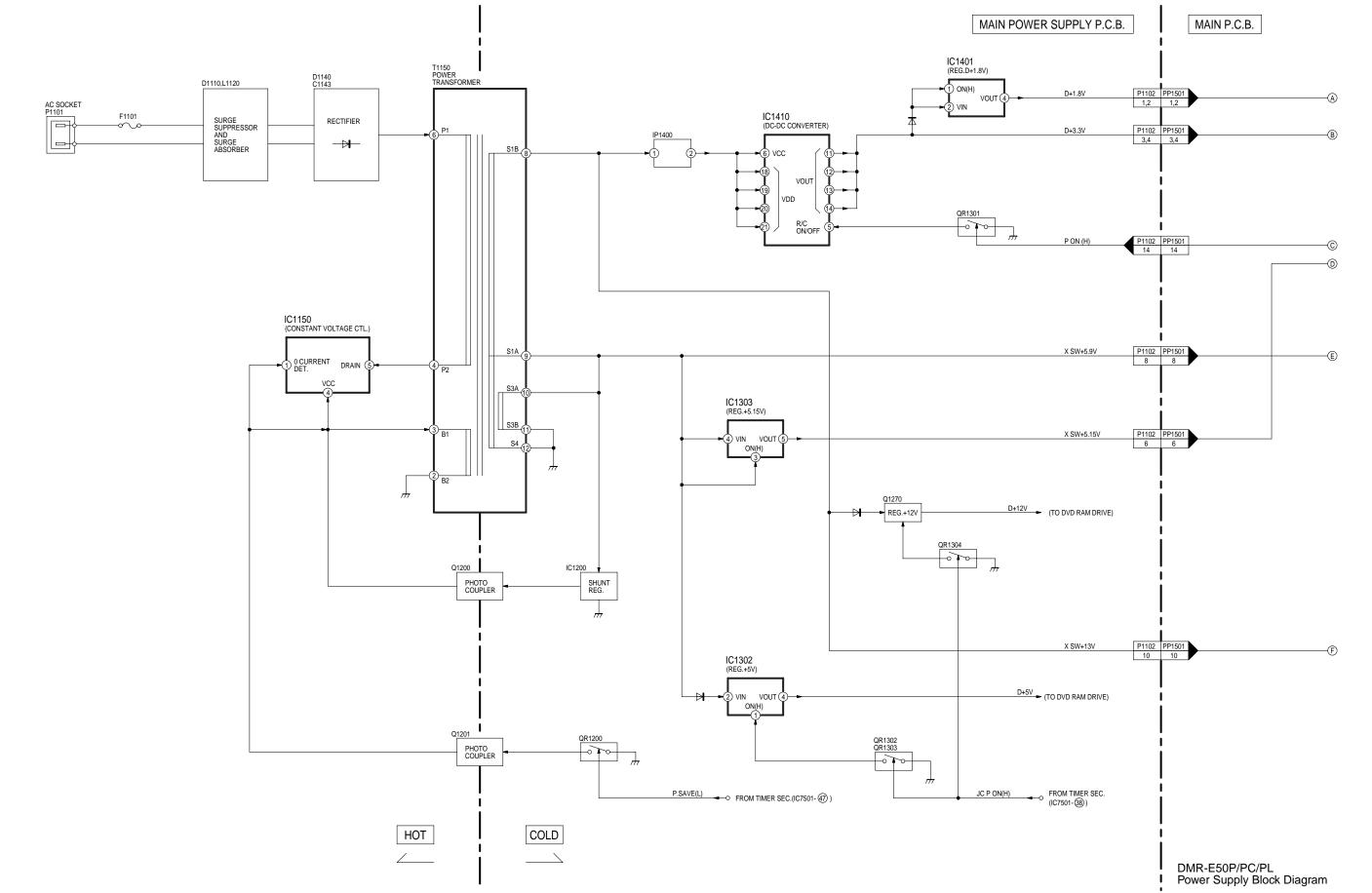
								P.C.B.								
Integrated Circ		TL7538	A-1	LB4914	F-2	C3075	D-6	C4904	F-6	R3032	C-6	R4040	E-3	R7536	B-3	
IC1502	C-3	Connector	F ^	LB7402	F-7	C3076	C-6	C4906	F-6	R3033	C-6	R4041	E-3	R7537	B-4	
IC1504 IC1505	C-3 C-2	JK3901 JK3902	F-2 F-4	LB7403 LB7408	E-7 C-7	C3077 C3078	C-6 D-6	C7404 C7405	F-7 F-7	R3039 R3040	C-4 C-4	R4042 R4043	E-3 E-3	R7540 R7541	B-3 B-3	
IC1505	C-2 C-1	JK3902 JK3903	F-4 F-5	LB7408 LB7508	A-2	C3078 C3079	D-6 D-6	C7405 C7411	E-7	R3040 R3041	C-4 C-3	R4043 R4044	E-3 E-4	R7541 R7542	B-3 B-3	
IC1508	E-7	P7501	A-7	LB9701	C-7	C3080	C-6	C7411	E-7	R3042	D-6	R4045	E-4	R7543	B-3	
IC1513	F-7	P7503	E-1	LB9702	C-7	C3081	B-6	C7416	F-8	R3043	D-6	R4046	E-4	R7544	B-2	
IC3002	C-4	PP1501	C-1	LB9703	C-7	C3082	B-6	C7417	D-8	R3044	D-6	R4047	E-4	R7545	B-2	
IC3003	C-6	PP1502	B-2	LB9704	C-7	C3083	C-6	C7432	A-8	R3045	D-6	R4048	E-4	R7546	B-4	
IC3005	E-6	PP1503	B-1	Capacitor		C3084	B-6	C7433	A-8	R3046	E-6	R4049	E-3	R7547	B-3	
IC4002	E-3 E-3	PP9701	C-7 C-5	C1502	C-1	C3085	C-6 D-6	C7438	D-7 D-7	R3047	D-6 D-6	R4050	E-3	R7548	B-4 B-4	
IC4003 IC4009	E-3 E-4	PP9702 PP9703	D-5 B-5	C1503 C1504	C-1 C-1	C3086 C3087	C-6	C7439 C7502	D-7 B-4	R3048 R3049	E-6	R4051 R4052	E-3 E-2	R7549 R7550	B-4 B-4	
IC4010	E-2	Diode	В	C1505	C-1	C3088	C-6	C7503	B-3	R3050	E-6	R4053	E-2	R7554	B-3	
IC4011	E-2	D3001	C-6	C1506	C-1	C3089	B-6	C7504	A-3	R3051	E-6	R4054	E-3	R7555	B-4	
IC4012	E-2	D4005	E-3	C1507	F-7	C3090	B-6	C7505	A-3	R3052	D-6	R4055	E-4	R7556	A-2	
IC7405	D-7	D7401	D-8	C1508	C-3	C3091	C-6	C7506	A-3	R3053	D-6	R4057	E-4	R7557	B-3	
IC7501	A-3	D7502	A-1	C1509	E-7	C3092	D-6	C7507	B-4	R3054	C-3	R4060	E-3	R7558	B-3	
IC7503	B-4 B-2	D7503	A-1 B-2	C1512	D-3	C3093	B-6	C7508	B-4	R3055	C-4 C-3	R4061	E-3	R7559	B-3 B-4	
IC7504 IC7505	B-2 B-3	D7505 D7506	A-2	C1514 C1528	C-2 F-7	C3094 C3095	B-6 B-6	C7517 C7518	B-4 B-3	R3056 R3057	C-3	R4062 R4063	E-3 E-2	R7563 R7564	C-2	
IC7507	F-1	D7507	A-2	C1530	F-7	C3096	B-6	C7519	A-3	R3058	C-3	R4064	E-3	R7566	A-2	
Transistor		D7513	C-2	C3001	E-6	C3097	C-4	C7523	B-3	R3060	C-3	R4065	E-3	R7567	A-2	
Q3001	D-6	D7514	C-2	C3002	D-6	C3098	C-6	C7524	A-1	R3061	C-6	R4066	E-2	R7568	A-2	
Q3002	E-6	Crystal Osillator		C3003	D-6	C3099	C-4	C7525	B-1	R3062	C-6	R4067	E-2	R7569	A-2	
Q3003	E-7	X3001	C-4	C3004	D-6	C3100	C-4	C7526	A-2	R3063	C-6	R4068	E-4	R7570	A-2	
Q3004 Q3005	C-4 C-3	X7501 X7502	B-2 B-3	C3005 C3006	D-6 D-6	C3101 C3102	C-4 B-6	C7528 C7529	B-1 B-1	R3064 R3065	C-6 C-6	R4071 R4072	F-4 D-2	R7571 R7572	A-2 A-2	
Q3005 Q3006	C-3	IC Protector	טיט	C3006 C3007	D-6 D-6	C3102 C3103	C-6	C7529 C7531	A-2	R3066	B-6	R4072 R4073	D-2 D-2	R7573	A-2 A-2	
Q3007	D-6	IP7501	B-1	C3007	D-5	C3104	C-4	C7531	B-1	R3067	C-6	R4074	E-3	R7576	B-2	
Q3008	D-6	Coil		C3009	E-7	C3901	F-3	C7533	B-1	R3068	C-6	R4076	E-4	R7577	B-2	
Q3009	D-6	L3001	D-6	C3010	E-6	C3902	F-2	C7534	B-3	R3070	F-6	R4078	E-4	R7578	B-2	
Q3010	E-6	L3002	D-6	C3011	E-6	C3904	F-3	C7535	B-3	R3071	C-6	R4079	F-3	R7580	B-2	
Q3011	E-7	L3003	E-6	C3012	E-6	C3906	F-5	C7536	B-3	R3072	C-6	R4081	E-3	R7581	B-2	
Q3012 Q3015	C-4 C-4	L3004 L3005	E-6 E-6	C3013 C3014	C-6 D-6	C3907 C4003	F-3 E-4	C7537 C7539	A-4 B-4	R3073 R3074	B-6 B-6	R4090 R4093	F-4 F-3	R7582 R7586	B-2 C-3	
Q4004	E-2	L3005 L3006	B-4	C3014 C3016	D-6	C4005	E-4	C7539 C7543	B-3	R3075	B-6	R4901	F-6	R7587	B-2	
Q4006	F-4	L3007	E-6	C3017	E-7	C4006	E-4	C7544	B-3	R3076	D-6	R4903	F-6	R7588	B-1	
Q4007	F-3	L3008	E-7	C3018	D-6	C4021	E-3	C7545	B-3	R3077	B-6	R7403	F-8	R7590	A-6	
Q7401	E-7	L3009	E-6	C3019	D-7	C4023	D-4	C7546	B-2	R3080	B-6	R7404	F-8	R7600	F-1	
Q7501	A-2	L3010	D-6	C3020	E-7	C4025	D-4	C7547	B-3	R3084	F-5	R7405	C-5	R7601	F-1	
Q7502 Q7509	A-2 F-1	L3012 L3014	E-6 E-7	C3022 C3023	B-6 D-6	C4026 C4028	E-2 E-4	C7548 C7585	B-3 F-1	R3086 R3087	E-7 C-4	R7406 R7407	D-8 D-8	R7602	F-1	
Q7509 Q7510	A-4	L3014 L3015	E-6	C3023 C3024	D-6 D-4	C4029	E-4 E-2	C7586	F-1	R3096	C-4 C-4	R7407 R7408	A-8	Transformer T7501	B-2	
Q7511	A-4	L3016	E-6	C3025	C-4	C4030	E-2	C7587	F-1	R3099	C-4	R7409	B-8	Backup Battery	- 52	
Transistor-resis		L3017	B-6	C3027	C-4	C4033	E-4	C9701	C-7	R3100	C-5	R7418	D-8	B7501	C-2	
QR3001	E-6	L3018	B-5	C3028	B-6	C4034	E-4	C9702	C-7	R3102	C-4	R7419	C-8			
QR3002	D-7	L3019	D-6	C3029	C-6	C4037	E-2	Resistor		R3103	C-3	R7445	D-7			
QR3004	D-6	L3020	D-6	C3030	D-4	C4038	E-2	R1501	C-3	R3106	D-7	R7446	D-7			
QR3005 QR3006	E-6	L3021 L3022	D-6 D-6	C3031 C3043	C-4 E-6	C4039 C4040	E-3 E-3	R1502 R1515	C-3 C-2	R3107 R3108	E-7 E-7	R7447 R7448	D-7 D-7			
QR3007	D-6 D-7	L3022 L3023	D-0 D-7	C3043	E-6	C4041	E-3	R3001	D-6	R3901	F-3	R7451	D-7			
QR3008	D-7	L4901	F-6	C3045	E-6	C4042	E-3	R3002	D-6	R3902	F-2	R7452	E-7		- 1	
QR3009	D-6	L7501	B-1	C3046	E-6	C4043	E-3	R3003	B-6	R3903	F-3	R7501	A-4		- 1	
QR3010	D-6	L7502	A-4	C3047	E-6	C4052	E-4	R3004	D-6	R3904	F-3	R7502	A-4		- 1	
QR3011	B-4	L7503	B-3	C3048	E-6	C4055	E-2	R3005	D-6	R3907	F-5	R7503	A-4		- 1	
QR4002 QR4003	D-2	L7504 LB1501	B-3 C-1	C3049 C3050	E-6 B-4	C4056 C4057	E-1 E-4	R3006 R3007	D-6 D-6	R3908 R3920	F-5 F-6	R7504 R7505	A-4 A-2		- 1	
QR4003 QR4004	D-2 D-2	LB1501 LB1502	C-1	C3050 C3051	B-4 B-4	C4057 C4058	E-4 E-2	R3007 R3008	E-6	R3921	F-0 F-2	R7505 R7509	B-2		- 1	
QR4005	D-2 D-2	LB1502 LB1503	C-1	C3052	E-6	C4059	E-2	R3009	E-6	R3923	F-2	R7513	B-2		- 1	
QR4006	E-2	LB1504	C-1	C3053	E-6	C4060	E-4	R3010	E-6	R3924	F-4	R7514	B-2		- 1	
QR4007	E-2	LB1505	C-1	C3055	E-6	C4061	E-4	R3011	E-6	R3926	F-5	R7515	A-4		- 1	
QR4010	D-2	LB3001	C-3	C3056	E-6	C4062	E-2	R3012	C-4	R3927	F-5	R7516	A-4		- 1	
QR4011	E-2	LB3902	F-5	C3057	E-6	C4063	F-4	R3013	C-5	R4002	E-2	R7517	A-2		- 1	
QR4012 QR7401	E-2 C-4	LB3904 LB3908	F-5 F-6	C3058 C3059	F-6 F-6	C4064 C4065	E-3 E-4	R3014 R3015	C-4 C-4	R4003 R4004	D-3 E-2	R7518 R7519	A-1 A-1		- 1	
QR7501	B-4	LB3908 LB3909	F-5	C3060	E-6	C4068	D-2	R3016	D-4	R4004	E-3	R7519	A-1 A-2		- 1	
QR7504	B-4 B-2	LB3910	F-5	C3061	E-6	C4070	E-2	R3017	F-3	R4008	E-2	R7522	A-2		- 1	
Test Point		LB3912	F-4	C3062	E-7	C4072	E-2	R3018	F-3	R4011	D-3	R7523	A-2		- 1	
CL7501	B-3	LB3913	F-2	C3063	F-7	C4074	E-2	R3019	C-3	R4013	D-4	R7524	A-2		- 1	
CL9701	B-5	LB3914	F-2	C3064	F-6	C4076	D-3	R3020	C-4	R4014	E-2	R7525	A-4		- 1	
TL3001	B-6	LB3915	F-3	C3066	C-4	C4077	E-3	R3021	C-4	R4015	E-4	R7526	A-3		- 1	
TL7401 TL7501	E-8 A-4	LB3916 LB3917	F-3 F-3	C3067 C3068	C-4 C-3	C4078 C4079	E-3 E-3	R3022 R3024	C-4 E-7	R4017 R4021	E-2 E-4	R7527 R7528	A-3 A-3		- 1	
TL7502	B-2	LB3917 LB3918	F-3	C3069	C-3	C4079 C4080	D-3	R3024 R3025	D-6	R4022	D-4	R7529	B-4			
TL7503	B-2	LB4907	F-4	C3070	C-3	C4082	F-4	R3026	C-4	R4024	E-2	R7530	B-4		- 1	
TL7504			_					1		1		R7531			1	
	B-3	LB4908	F-3	C3071	C-6	C4083	F-3	R3027	C-4	R4026	E-4	K/331	B-4		J	
TL7505	B-3 B-2	LB4911	F-2	C3072	D-6	C4901	F-6	R3028	E-7	R4030	E-2	R7532	B-3			
TL7505 TL7506 TL7507	B-3							1		1		1				

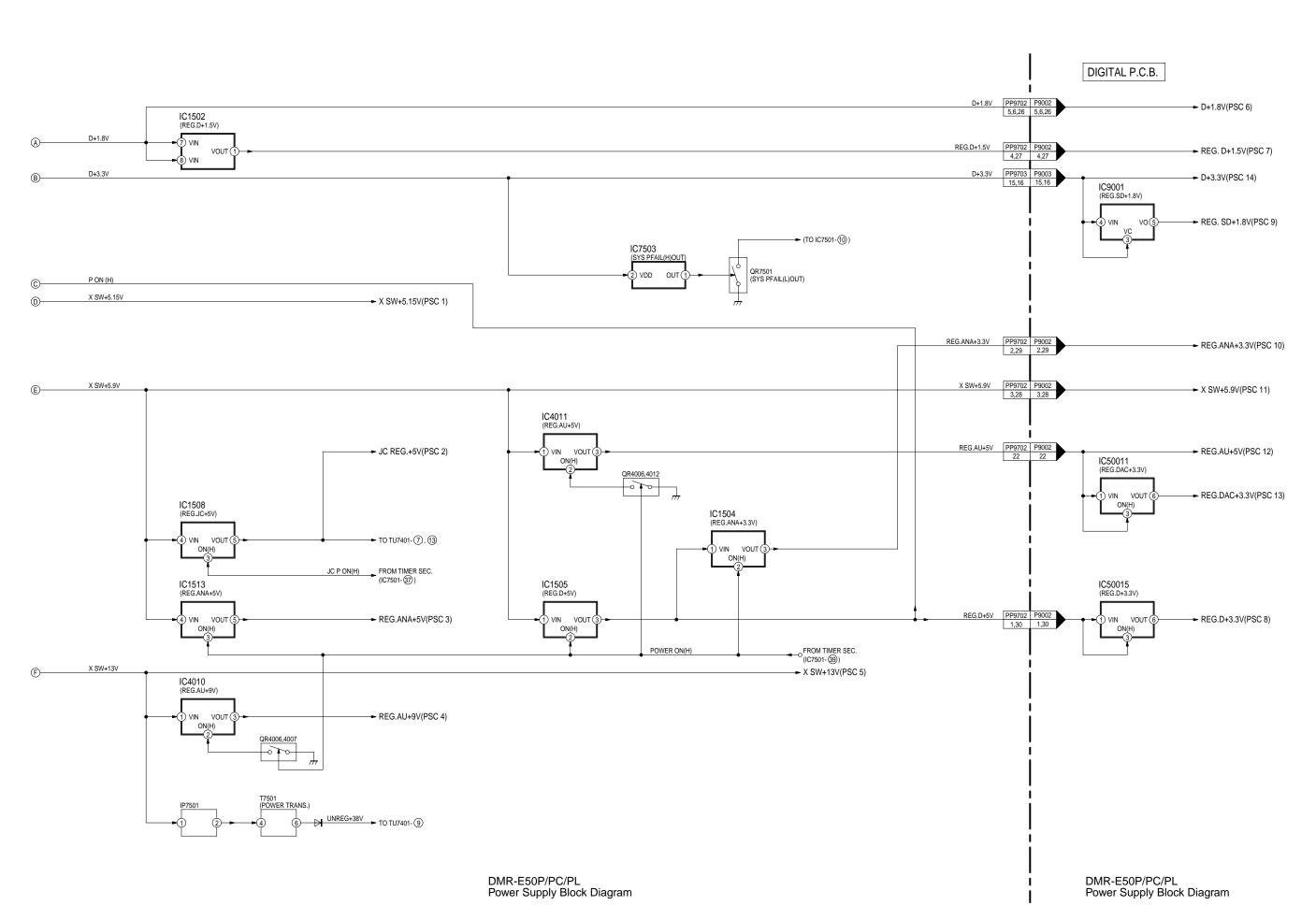






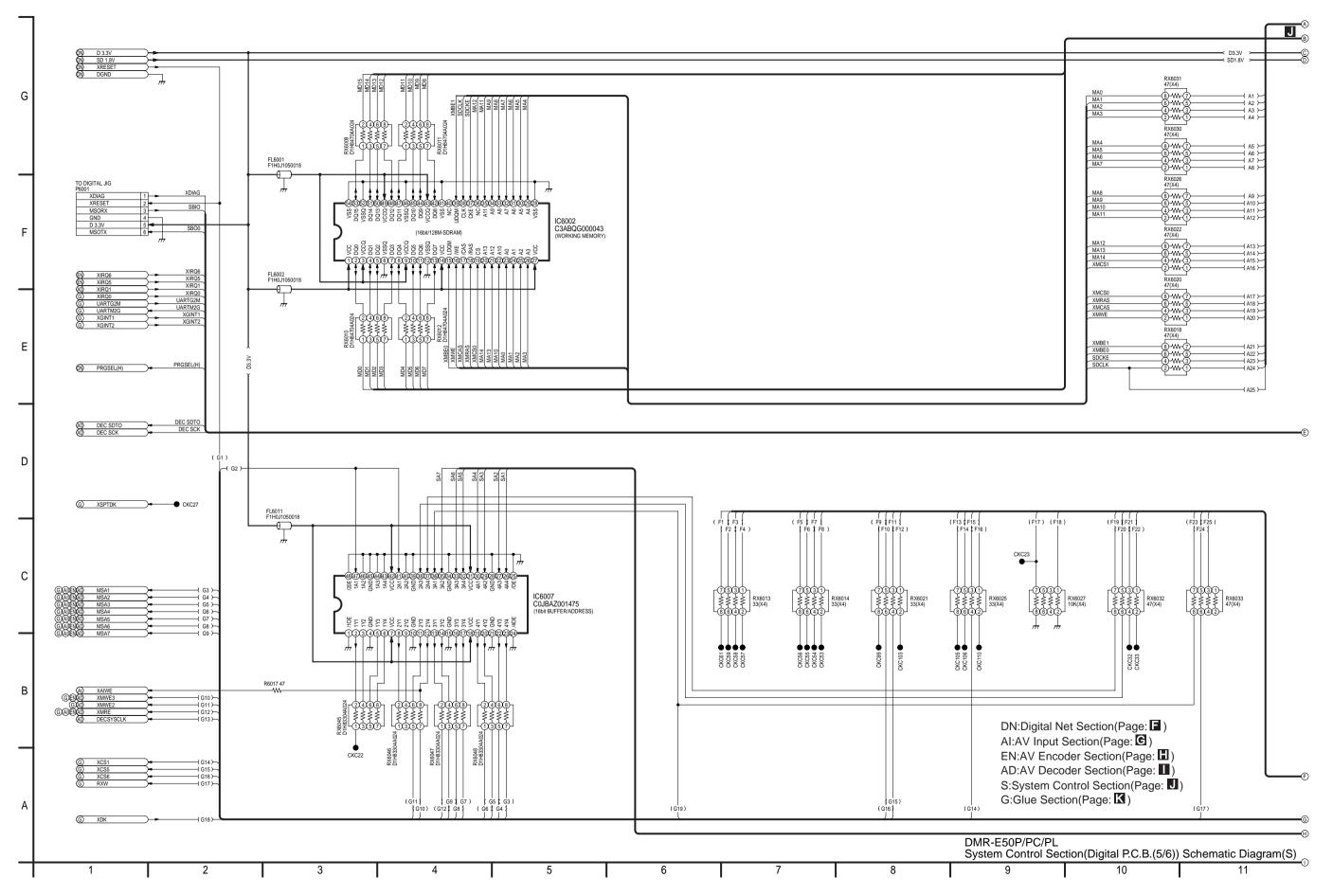
Ref No.			IC1150					IC1200					IC1302							
MODE	1	2	3	4	5		1	2	3		1	2	3	4	5					
REC	2.4	1.8	0	13.6	-480		4.7	2.5	0		5.5	5.7	0	5.0	5.0					
PLAY	2.4	1.8	0	13.6	-480		4.7	2.5	0		5.5	5.7	0	5.0	5.0					
STOP	2.4	1.8	0	13.6	-490		4.7	2.5	0		5.5	5.7	0	5.0	5.0					
Ref No.			IC1303						IC1401											
MODE	1	2	3	4	5		1	2	3	4	5									
REC	1.3	0	6.0	6.0	5.0		2.4	2.4	0	1.9	1.3									
PLAY	1.3	0	6.0	6.0	5.0		2.4	2.4	0	1.9	1.3									
STOP	1.3	0	6.0	6.0	5.0		2.4	2.4	0	1.9	1.3									
Ref No.										IC1	410									
MODE \	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.4	3.4	3.5	-0.1	0	13.8	0	6.6	0	0	-1.6	-1.5	-1.5	-1.5	0	-0.1	0	13.8	13.7	13.7
PLAY	4.4	3.4	3.5	0	0	13.8	0	6.6	0	0	-1.7	-1.7	-1.7	-1.7	0	-0.1	0	13.9	13.9	13.9
STOP	4.4	3.4	3.5	0	0	13.9	0	6.6	0	0	-1.7	-1.7	-1.7	-1.7	0	-0.1	0	13.9	13.9	13.9
Ref No.						IC1	_													
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	13.7	0	-16.5	0	5.2	-0.1	0.1	4.9	0	1.4	0	2.4								
PLAY	13.9	0	-16.3	0	5.1	0	0.1	4.9	0	1.4	0	2.4								
STOP	13.9	0	-16.2	0	5.0	0	0	4.9	0	1.4	0	2.4			070					
Ref No.		Q1:				1	Q1						-		270		7			
MODE	- 7	2	3	4		_	2	3	4		10.0	2	3	4	5	6	,	8		
REC PLAY	5.7	4.7	0	1.8		0	0	0	6.1		12.6	12.6	12.6	0	12.6	12.6	12.6	12.6 12.7		
STOP	5.7 5.7	4.7	0	1.7		0	0	0	6.1 6.1		12.7 12.7	12.7 12.7	12.7 12.7	0	12.7 12.7	12.7 12.7	12.7 12.7	12.7		
Ref No.		4.7 QR1200		1.8		QR1301	U	U		QR1302		12.7		QR1303		12.7	12.7	QR1304		
MODE	Е	C C	В		F	C C	В		F	C C	В		F	C	В		Е	C	В	
REC	0	0	4.9		0	0	5.0		0	5.5	0		0	0	4.9		0	0	4.9	
PLAY	0	0	4.9		0	0	5.0		0	5.5	0		0	0	4.9		0	0	4.9	
STOP	0	0	4.9		0	0	5.0		0	5.5	0		0	0	4.9		0	0	4.9	
3108	U	U	4.9		U	U	5.0		U	ა.ა	U		U	U	4.9	I	U	U	4.9	

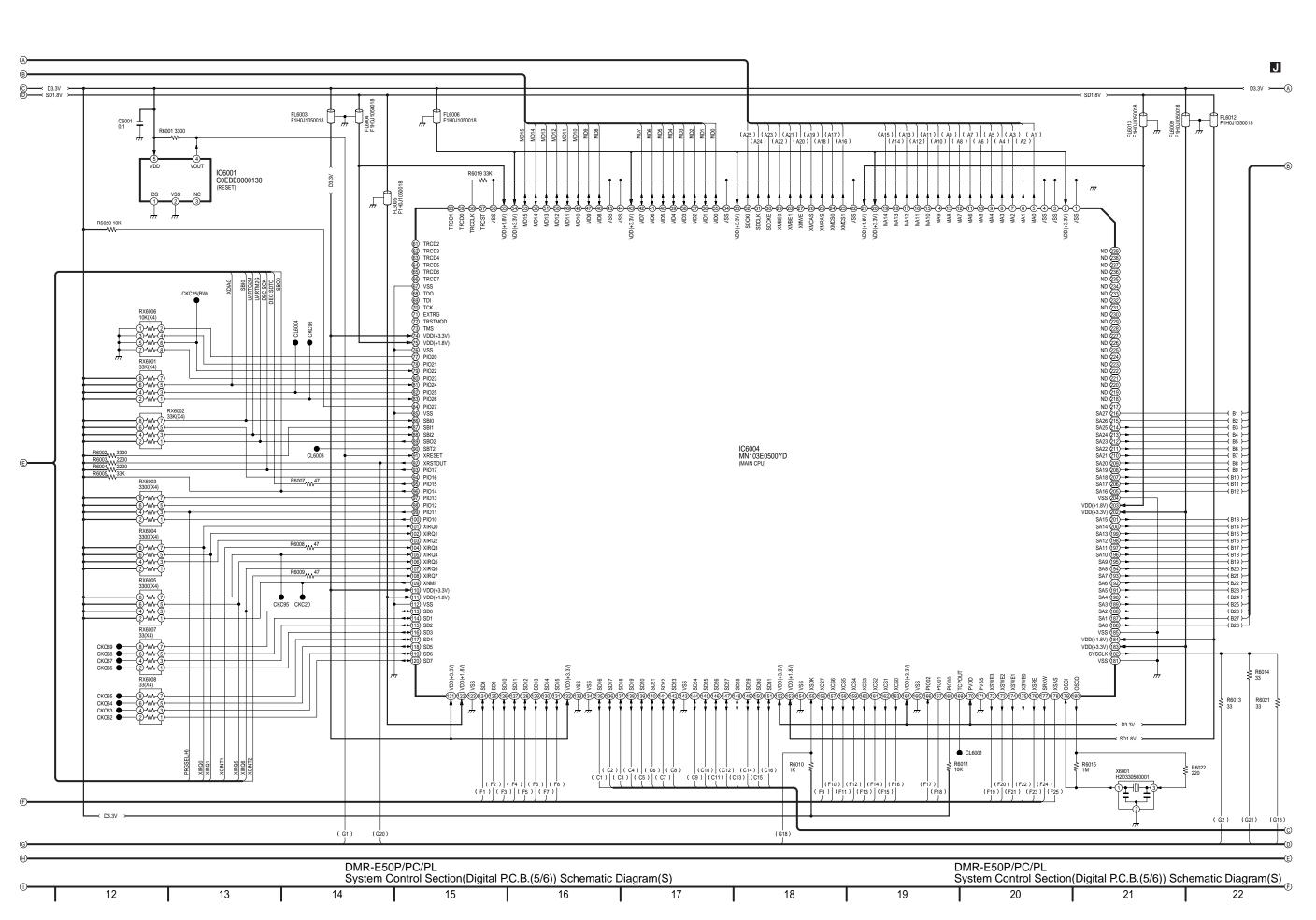


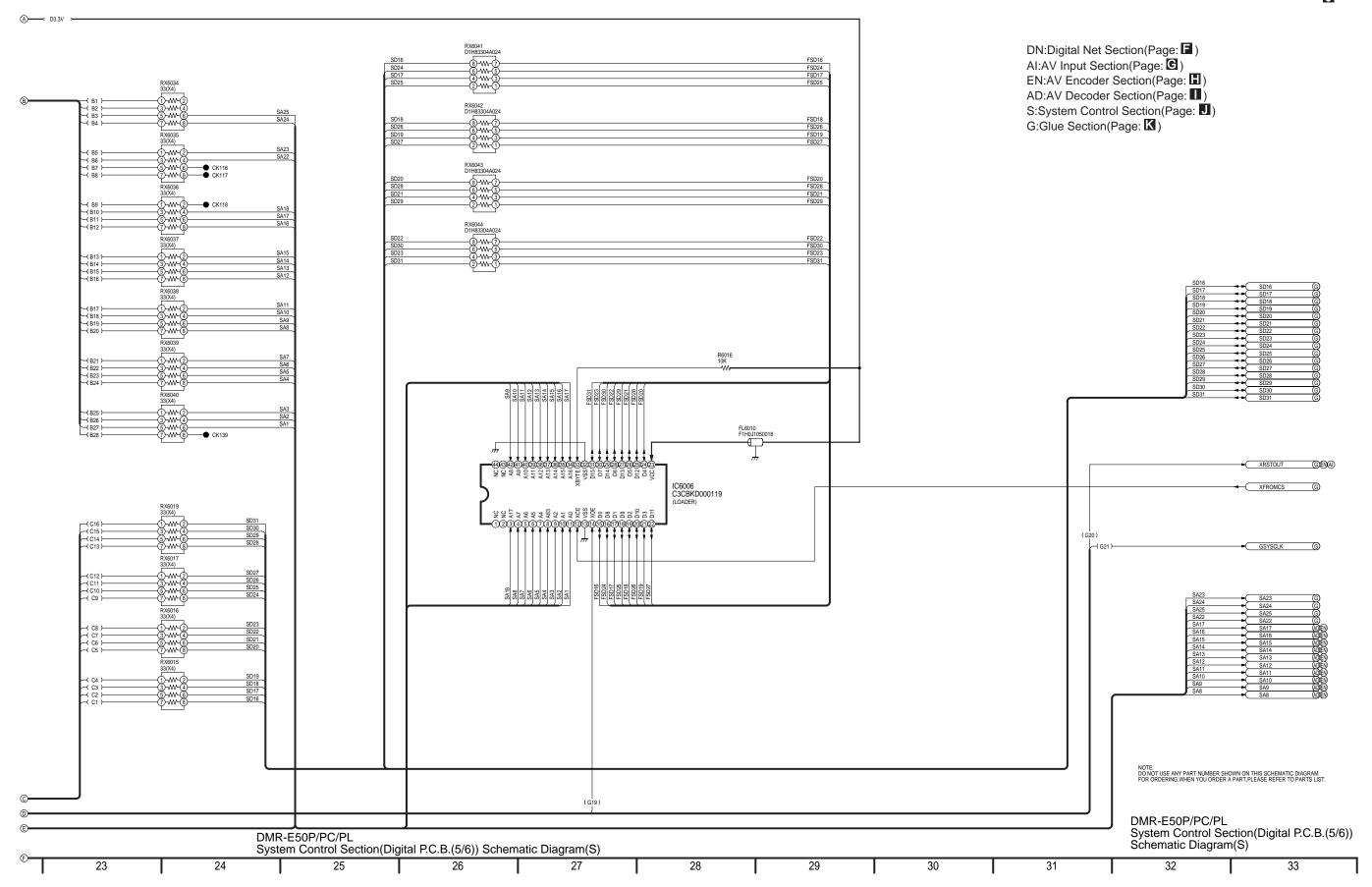


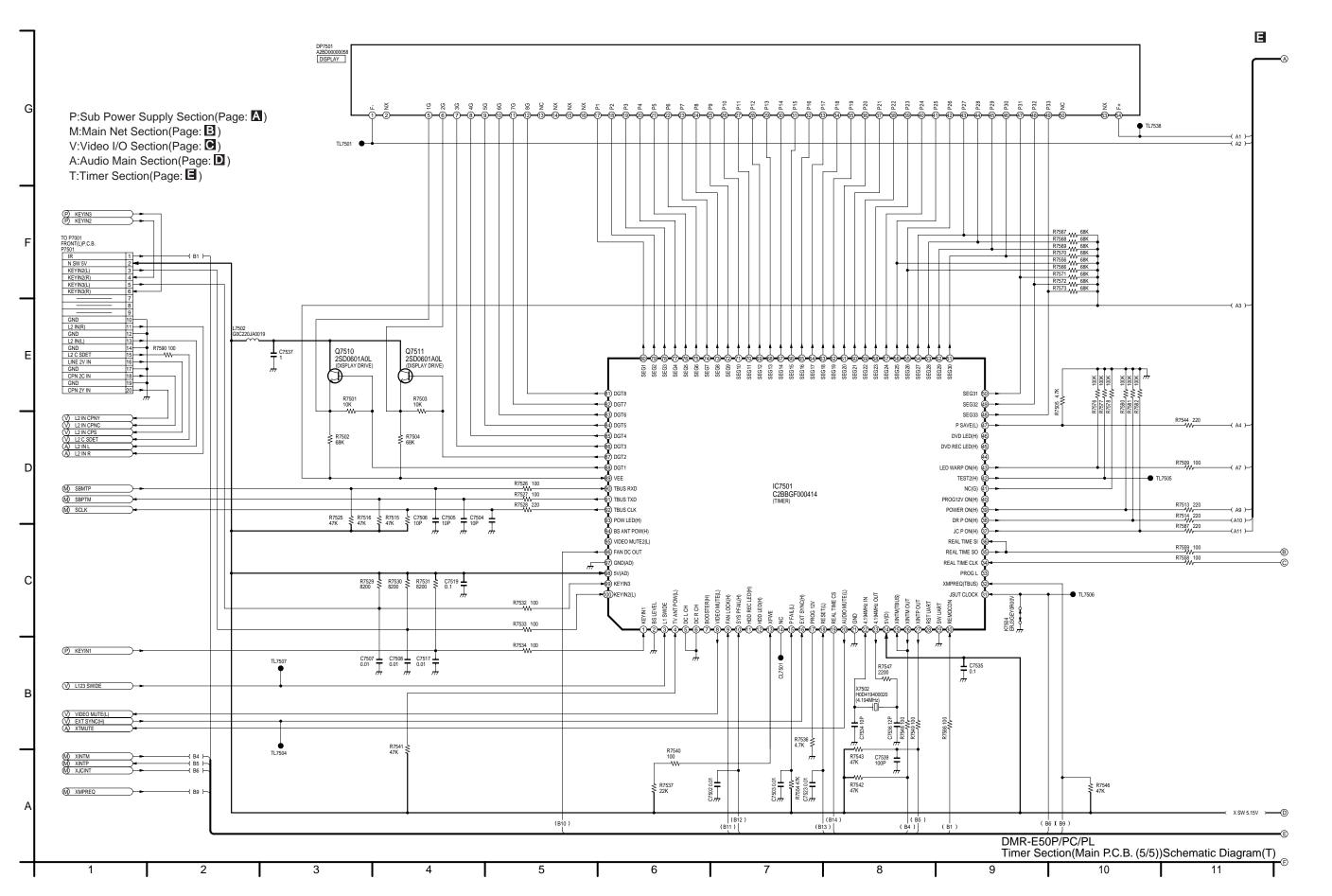
PSC 1. X S	SW +5.15V		PSC 10. R	EG.ANA +3.3V	1
Ref. No.	Pin. No.	Schematic Name	Ref. No.	Pin. No.	Schematic Name
IC7501	98	Timer (Main)	IC3203	2,11,12,21	AV Input (Digital)
IC7504	8			26,30	
IC7505	2		IC3402	30	AV Encoder (Digital)
			IC50003		AV Decoder (Digital)
PSC 2. JC	REG. +5V			, ,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Ref. No.	Pin. No.	Schematic Name	PSC 11. X	SW +5.9V (No	ot Used)
IC3003		Video I/O (Main)		(11	,
	41,45	()	PSC 12 R	EG.AU +5V	
IC7405		Main Net (Main)	Ref. No.	Pin. No.	Schematic Name
107 100	U	wan itot (wan)	IC4402		AV Input (Digital)
PSC 3 RE	G.ANA +5V		IC4403	5	/ (Digital)
Ref. No.	Pin. No.	Schematic Name	IC50010		AV Decoder (Digital)
IC3005		Video I/O (Main)	1030010	0	Av Decoder (Digital)
103003	0,11	video i/O (iviairi)	DSC 12 D	EC DAC 12 2V	,
PSC 4. RE	C ALL LOV		Ref. No.	EG.DAC +3.3V Pin. No.	Schematic Name
		Cohomotic Name			
Ref. No.	Pin. No.	Schematic Name	IC4403		AV Input (Digital)
IC4002		Audio Main (Main)	IC50010	5	AV Decoder (Digital)
IC4003	8		D00 :: =	0.017	
IC4009	8		PSC 14. D	1	
IC4012	8		Ref. No.	Pin. No.	Schematic Name
			IC3201		AV Input (Digital)
PSC 5.X S				38,44	
Ref. No.	Pin. No.	Schematic Name	IC3202	7,12,19,25	
IC7507	8	Timer (Main)		30,37,42,48	
			IC3203	31,38,45	
PSC 6. D +	1.8V			52,58,65	
Ref. No.	Pin. No.	Schematic Name		71,78,84	
IC3203	39,64,88	AV Input (Digital)		91,108,119	
	109,131,156	,		130,137,145	
IC3402		AV Encoder (Digital)		159,166,179	
	59,71,84,96	`	IC3204	5	
	111,123,136		IC3205	5	
	148,163,175		IC3401		AV Encoder (Digital)
	188,198		100101	35,41,43,49	// Enough (Bigital)
IC3406	26,69,107			55,75,81	
100400	153		IC3402	4,14,22,34	
	100		100402	46,50,57,66	
PSC 7. RE	C D ±1 51/			75,83,91	
Ref. No.	Pin. No.	Schematic Name		100,110,118	
IC50003				, ,	
1030003		AV Decoder (Digital)		126,132,139	
-	69,98,127			145,152,160	
	135,172,186			167,172,181	
D00 0 D=	0 D +0 0) (185,192,199	
PSC 8. RE	1	0.1	100 100	202,205	
Ref. No.	Pin. No.	Schematic Name	IC3403	1,3,9,14	
IC50001	5,6	AV Decoder (Digital)	100 10 1	27,43,49	
			IC3404	1,3,9,14	
PSC 9.REC				27,43,49	
Ref. No.	Pin. No.	Schematic Name	IC3406	7,15,31,43	
IC6004		Syscon (Digital)		47,54,70,81	
	111,122,153			88,91,99,106	
	184,203			114,125,130	
				138,152,168	
					

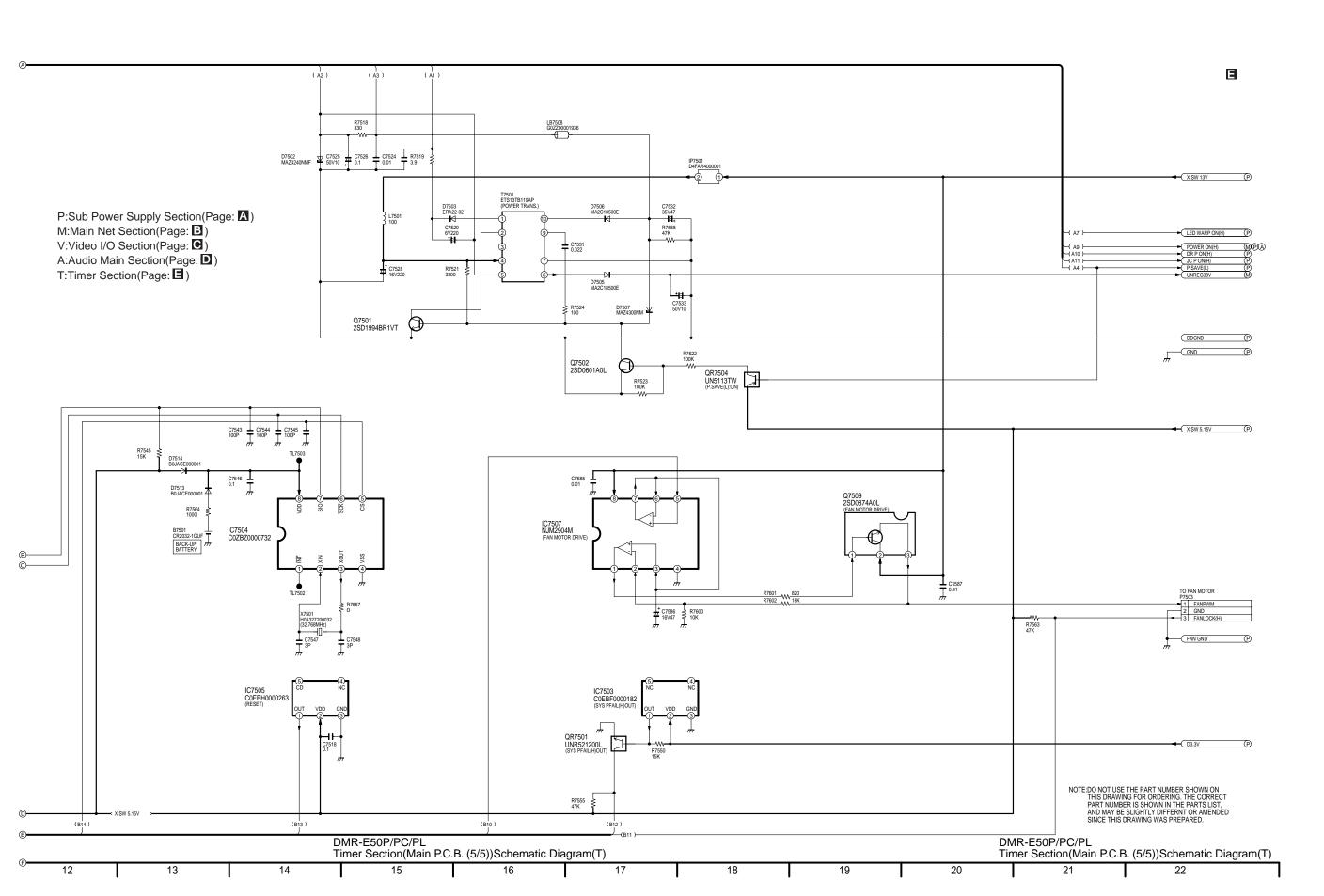
PSC 14. D	+3.3V	
Ref. No.	Pin. No.	Schematic Name
IC50001	1,11,14,19	AV Decoder (Digital)
IC50002	1,3,9,14	
	27,43,49	
IC50003	5,15,26,39	
	52,58,66,75	
	89,103,131	
	144,152,157	
	165,175,184	
	194,203	
IC50004	1,3,9,14	
	27,43,49	
IC50005	5	
IC50006	5	
IC50013	5	
IC50014	14	
IC6001	5	Syscon (Digital)
IC6002	1,3,9,14	
	27,43,49	
IC6004	2,20,33,43	
	54,74,110	
	121,132,152	
	164,170,183	
	202	
IC6006	23	
IC6007	7,18,31,42	
IC6701	29,57,82	GLUE (Digital)
	103,134,161	
	184,204,206	
IC6702	5	
IC6703	23,44	

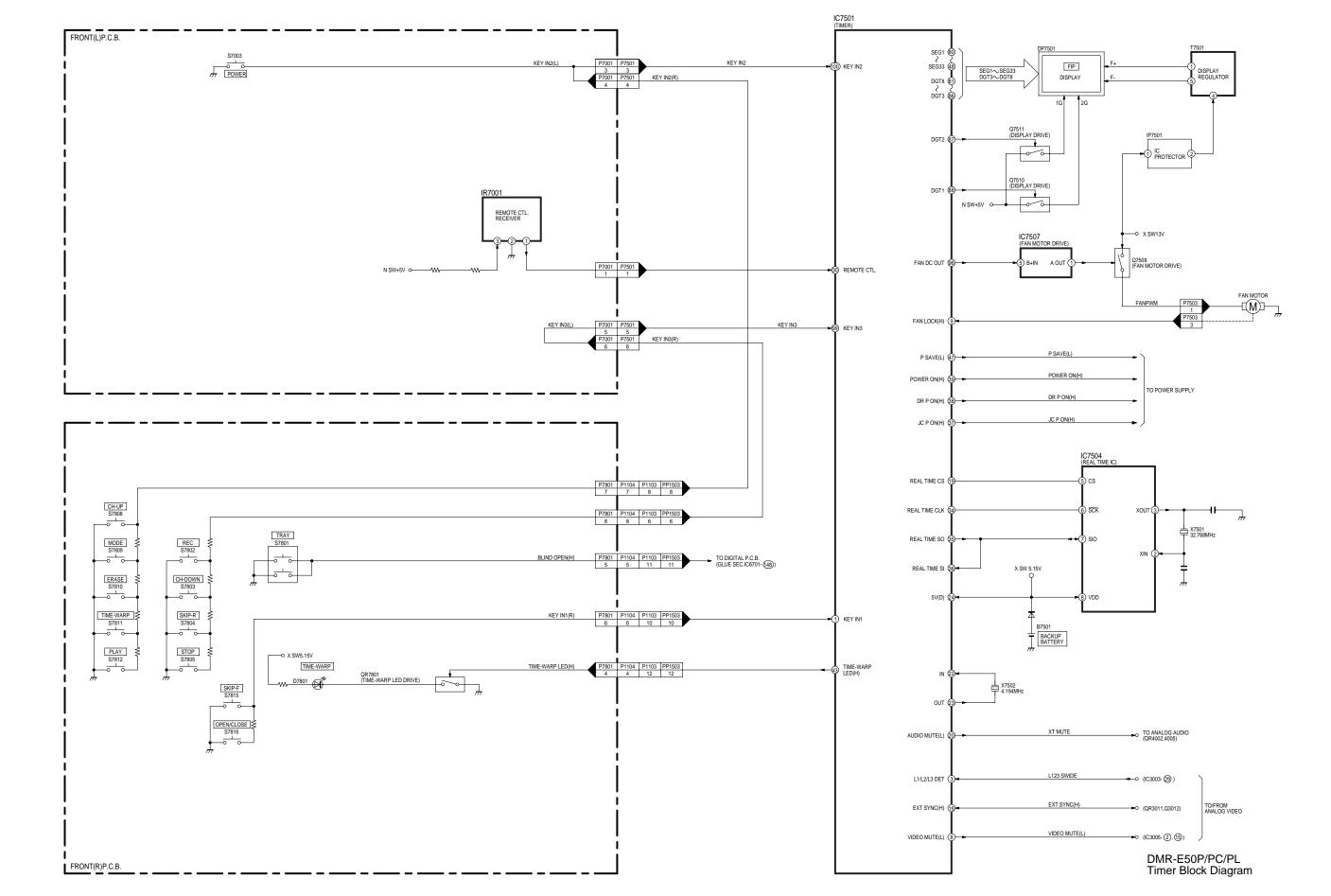


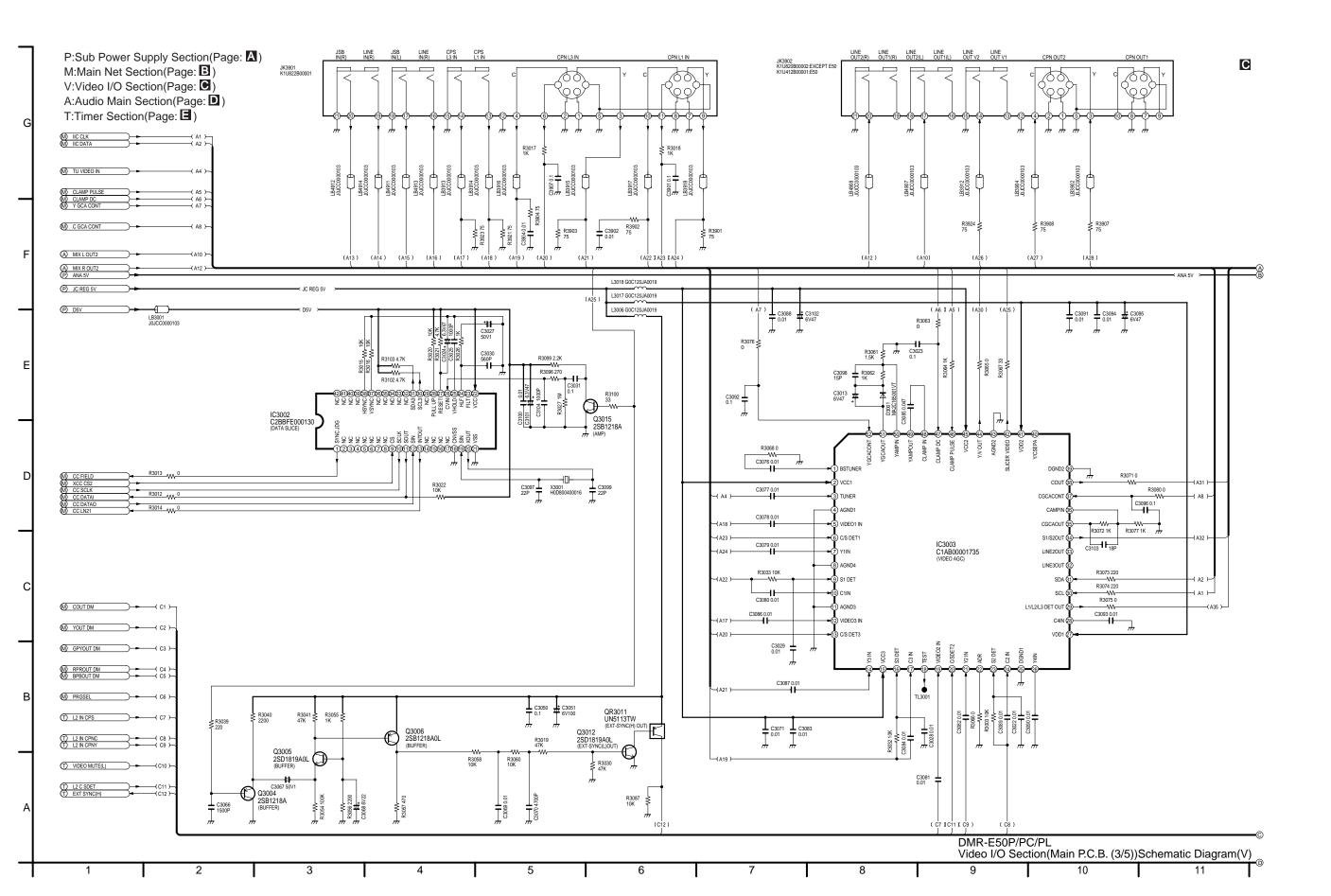


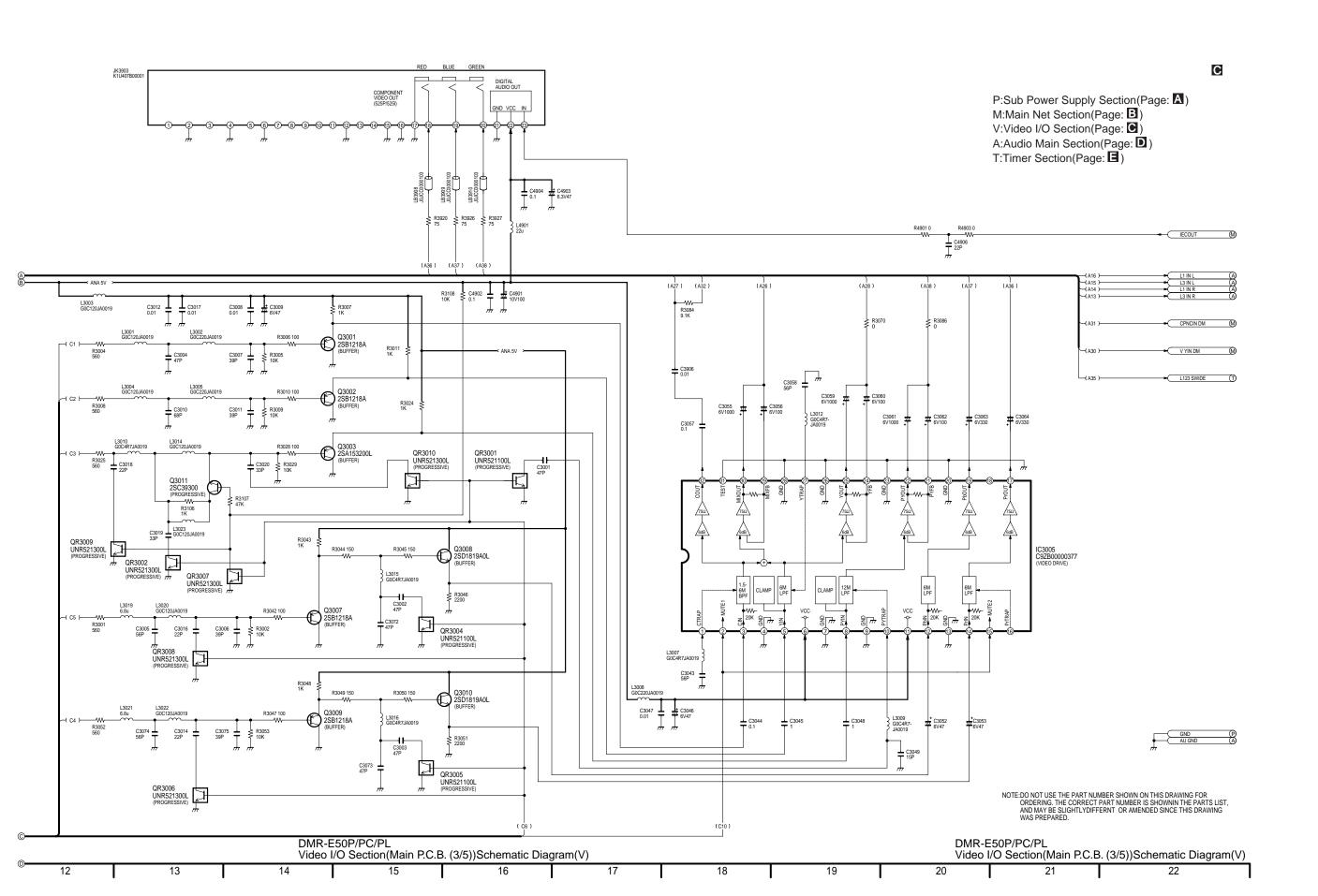












DIGITAL P.C.B. R R3426 △ L S S S 15 16 RX6047 FL6011 V-R50060 PR3212. ∇•^{R3238}• IC50014 IC3203 2625242322212019181716151413121110 9 8 144 (148156149 37 53 54 56 142 141 (160161 172 175171) 57 59 60 139 146 158 151 208 207 206 174 170 169 205 204 55 62 58 64 134 139 140 143 2020 177 178 187 168 2020 200 61 63 65 66 IC3205 10 8 123 FL3413 RA3422 RA3422 RA3422 RX6009 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 **OVER VIEW** 13 15 28 ₽ FL3210 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 0000 31003100310 C50027 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 10 9 8 7 6 5 4 3 2 1 C9013 6 FL6010 RX6043 <u>C4412</u> ∆ C4413 ∇•^{R3414}• FL9022 LB9009 ∆ Š 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 35 36 37 38 39 40 41 42 43 44 RX6704 RX6703 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Digital P.C.B. (Component Side) DMR-E50P : (REP3496B) DMR-E50PC : (REP3496BD) DMR-E50PL : (REP3496BC) (COMPONENT SIDE) 5 6

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DIGITAL P.C.B. RX6740 RX6739 RX6736 RX6737 C50013 CL6812 ∇•^{R4406}• RX6748 RX6709 20,7206 6 9 12 17 21 25 25 25 17 41 45 49 56 57 56 IC50010 FL3410 CL6813 152 R6730 502 501 500 188 IC50011 <u>R6719</u>•∆ 961 961 761 961 • 00044456 161 261 161 161 ∇•^{R6730}• C50025 ∆ | ⊋ **781 881 681 061** IC4402 (190 190 191 182 **⊘**LB4403 **⊘**C50028 HI LO DA LTO TRE TRE TO THE DEB DEB

2013 LOS DA TO TRE TRE TO THE DEB DEB

2013 LOS DA TO TRE TRE TRE DEB DEB

2013 LOS DA TO TRE DA TO TRE DA TO TRE

2014 LOS DA TO TRE DA TO TRE

2015 LOS DA TO TRE

2015 LOS DA TO TRE

2016 LOS DA TO TRE

2017 LOS DA TO TRE

2018 LOS DA TO

2018 LOS 3/1 9/1 //1 8/1 •R6713•∆ V•C4407• •R4405•∆ ∪ 1/1 2/1 2/1 1/1 CL6791 R6715 A
CL6790 R6714 A
CL6787 R6711 A FL4401 LB4402 △ R4407 △ TER TER TER TER TER THE TH'S 128 124 120 158 155 118 114 101 100 66 •R4408•∆ 129 129 122 148 144 140 120 125 138 134 130 110 115 109 104 104 ₩_₹ CL6803 VeR3427 ∇•^{R4415}• 5 158 187 2 2 158 5 1 1 149 206 4 204 7 163 203 1 145 200 1 145 200 2 197 11 4 19 13 5 27 12 2 13 13 1 1 188 V•R6746 • V•R6708• ⊽•^{C4418}• ∇•^{C4416}• ⊘•R6745• 20 P3401 123 5000\$ R50002 R50055 OKC131 R50017 CKC128 R50021 A C50005 FL3402 CL50008 759 R50014 PA50017 8 V-R3224 **OVER VIEW** ₹ •R3409•∆ FL50014 Ω 208 ∇•^{R6001}• RA50026 RA50027 200 RX6003 RX6004 RX6006 R6020 01.3202 RA50028 961 RA3407 RA3408 RA3412 C3208 A H 981 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 11911/150/26123112/11110/26239 5 0 4 3 4 8 4 2 29 21 421713/21212332425252397 4 5 7 4 1 8 4 2 29 21 28129131 13513328229239231 232 33 28 27 28 30 31 8 125139142139123-135228222322 32 20 19 14 21 18 14 145145144 14516342202 22 22222 32 20 19 14 21 18 14 1491451421651254153217218219202 4 3 13 15 12 5 FL6006 KA50022 FL6013 CL50003 CL50005 CL50007 CL6804 9/.I ©KC113 RA50023 151 148 155 162 181 183 165 164 204 203 201 210 2 11 6 10 161 156 160 159 166 174 184 185 194 190 198 207 215 1 7 9 0/1 LB3204_△ <u>€C3205</u>•∆ 991 RX6036 •R6022•∆ 100 RX6040 RX6039 RX6033 CKC11 X6001 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 VeR6021. ∇-R50037 CL50004 #0T 014 ∆ FL6009 Digital P.C.B. (Foil Side) DMR-E50P : (REP34 DMR-E50PC : (REP34 (FOIL SIDE) (REP3496B) (REP3496BD) DMR-E50PL (REP3496BC) 2 3 5

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Ref No.		502				IC1504						IC1505								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	1.5	1.5	3.3	3.3	0	0	1.8	1.8		4.8	5.0	0	3.3	3.3		4.8	5.9	0	5.0	5.0
PLAY	1.5	1.5	3.3	3.3	0	0	1.8	1.8		4.8	5.0	0	3.3	3.3		4.8	5.9	0	5.0	5.0
STOP	1.5	1.5	3.3	3.3	0	0	1.9	1.9		4.8	5.0	0	3.3	3.3		4.8	5.9	0	5.0	5.0
Ref No.			IC1508						IC1513											
MODE	1	2	3	4	5		1	2	3	4	5									
REC	1.2	0	4.9	5.9	4.9		1.2	0	4.8	5.9	5.0									
PLAY	1.2	0	4.9	5.9	4.9		1.2	0	4.8	5.9	5.0									
STOP	1.2	0	4.9	5.9	4.9		1.2	0	4.8	5.9	5.0									
Ref No.	-	-	-							IC3	002									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	0	0	0	0	0	0	0	5.0	5.0	5.0	0.1	0	0	0	0	0	0	2.1	2.0
PLAY	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.2	2.0
STOP	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.1	2.0
Ref No.										IC3	002									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	5.0	1.1	2.0	0.2	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
PLAY	0	5.0	1.1	2.0	0.2	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
STOP	0	5.0	1.1	2.0	0.2	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
Ref No.	IC30	002																		
MODE	41	42																		
REC	0	0																		
PLAY	0	0																		
STOP	0	0																		
Ref No.										IC3	003									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.5	4.9	1.8	0	1.8	4.7	1.5	0	0.1	2.7	0	1.5	4.7	1.5	4.9	0.1	2.7	0.1	1.5	4.7
PLAY	1.5	4.9	2.2	0	1.8	4.7	1.5	0	0.1	2.7	0	1.5	4.7	1.5	4.9	0.1	2.7	0.1	1.5	4.7
STOP	1.5	4.9	1.8	0	1.8	4.7	1.5	0	0.1	2.7	0	1.5	4.7	1.5	4.9	0.1	2.7	0.1	1.5	4.7
Ref No.										IC3	003									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.5	0	0.1	2.7	0	1.5	4.9	2.7	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.2
PLAY	1.5	0	0.1	2.7	0	1.5	4.9	2.7	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.1
STOP	1.5	0	0.1	2.7	0	1.5	4.9	2.7	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.2
Ref No.	-					IC3	003			-	-	-								
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
REC	4.9	1.6	0	1.6	4.9	0.2	1.9	2.2	1.7	0.7	1.8	1.8								
PLAY	4.9	1.6	0	1.6	4.9	0.2	1.8	2.2	1.7	0.7	1.8	1.8								
STOP	4.9	1.6	0	1.6	4.9	0.2	1.9	2.2	1.7	0.7	1.8	1.8								

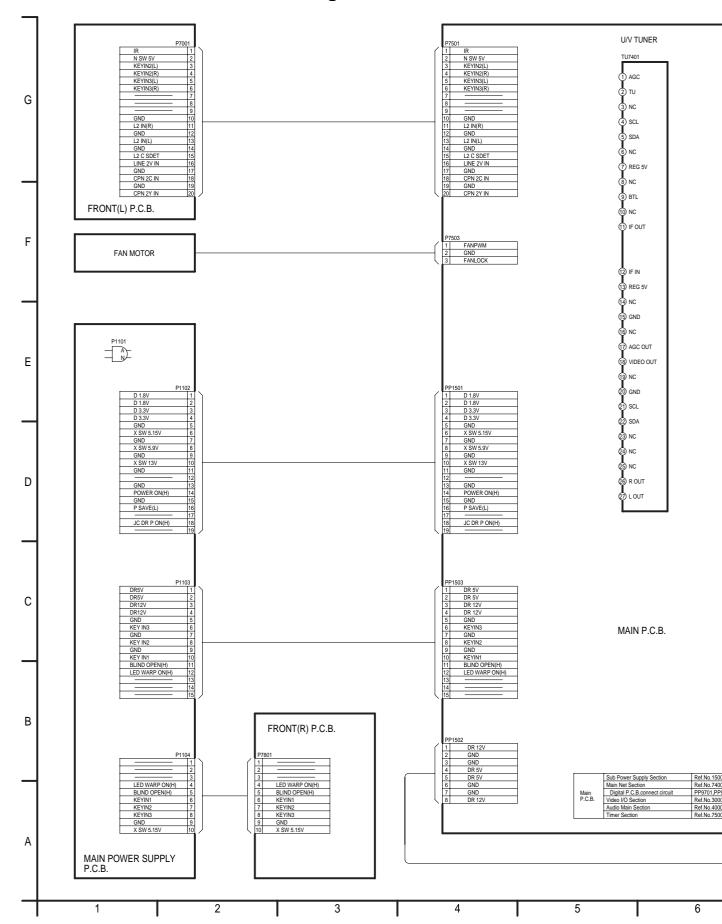
Ref No.										IC3	005									
MODE REC	1 2.0	2 4.9	3 2.7	4 0	5 2.5	6 4.9	7	8 2.5	9	10 1.9	11 4.9	12 2.8	13 0	14 2.8	15 4.9	16 2.1	17 2.3	18 0	19 2.3	20 0
PLAY	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.2	2.3	0	2.3	0
STOP	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.1	2.3	0	2.3	0
Ref No. MODE	21	22	23	24	25	1C3 26	005	20	29	30	31	32								
REC	21	22	0	2.1	25 2.1	0	27	28 0	2.1	2.1	0	2.3								
PLAY	2.0	2.0	0	2.1	2.1	0	2.0	0	2.1	2.1	0	2.3								
STOP	2.0	2.1	0	2.1	2.1	0	2.0	0	2.1	2.1	0	2.3								
Ref No. MODE	1	2	3	4	5	6	7	8	002 9	10	11	12	13	14	15	16				
REC	6.0	6.0	6.0	6.0	6.0	0	0	0	11.9	11.9	6.0	6.0	6.0	6.0	6.0	12.0				
PLAY	6.0	6.0	6.0	6.0	6.0	0	0	0	11.9	11.9	6.0	6.0	6.0	6.0	6.0	12.0				
STOP Ref No.	6.0	6.0	6.0	6.0	6.0 003	0	0	0	11.9	11.9	6.0	6.0	6.0	6.0 009	6.0	12.0				
MODE NO.	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
STOP Ref No.	6.0	6.0	6.0 IC4010	0	6.0	6.0	6.0	12.0	IC4011	6.0	6.0	6.0	0	6.0	6.0	6.0 IC4	12.0 012	<u> </u>		
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7	8
REC	13.1	13.8	0	12.0	12.0		5.7	5.9	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0
PLAY STOP	13.2 13.2	13.9 13.9	0	12.0 12.0	12.0 12.0		5.7 5.7	5.9 5.9	0	5.0 5.0	5.0 5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0 12.0
Ref No.	10.2	10.0			405		0.1	0.0		0.0	0.0		0.0	0.0	0.0		5.0	0.0	0.0	12.0
MODE	1	2	3	4	5	6	7	8												
REC PLAY	0	2.4	1.8	0	2.8	2.4	3.2	4.9 4.9									}			┝─┤
STOP	0	2.4	1.8	0	2.8	2.4	3.3	4.9												
Ref No.										IC7										
MODE REC	1 4.9	0	3 4.6	4.9	5 0	6	7	8 4.9	9 2.5	10 0	11 0	12 0	13 4.9	14 0	15 4.9	16 0.1	17 0	18 4.9	19 0.5	20 4.9
PLAY	4.9	0	4.6	4.9	0	0	0	4.9	2.5	0	0	0	4.9	0	4.9	0.1	0	4.9	0.5	4.9
STOP	4.9	0	4.6	4.9	0	0	0	4.9	2.5	0	0	0	4.9	0	4.9	0.1	0	4.9	0.5	4.9
Ref No.	24	22	22	24	25	200	07	20	20	_	501	22	22	24	25	20	27	20	20	40
MODE REC	21 0	22	23	24 4.9	25 5.0	26 5.0	27 4.9	28 0	29 0	30 4.8	31 0	32 5.0	33 4.9	34 4.8	35 4.5	36 4.5	37 4.9	38 4.9	39 4.9	40 0
PLAY	0	2.2	2.4	4.9	5.0	5.0	4.9	0	0	4.8	0	5.0	4.9	4.8	4.5	4.5	4.9	4.9	4.9	0.1
STOP	0	2.3	2.4	4.9	5.0	5.0	4.9	0	0	4.8	0	5.0	4.9	4.8	4.5	4.5	4.9	4.9	4.9	0
Ref No. MODE	41	42	43	44	45	46	47	48	49	IC7 50	501 51	52	53	54	55	56	57	58	59	60
REC	0	0	0	0	4.9	4.9	4.9	-25.1	-21.4	-28.8	-17.7	-21.4	-17.1	-25.0	-25.1	-20.9	-25.0	-25.0	-25.0	-17.1
PLAY	0	0	-0.2	0	0	4.9	4.9	-25.0	-25.0	-28.7	-17.7	-20.9	-17.1	-25.0	-20.9	-25.0	-24.9	-28.6	-24.9	-17.5
STOP Ref No.	0	0	0	0	0	4.9	4.9	-25.1	-25.0	-28.7 IC7	-21.4 501	-28.7	-17.1	-25.0	-21.3	-20.8	-25.0	-25.0	-25.0	-25.0
MODE MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	-17.1	-9.2	-17.1	-17.6	-16.1	-17.6	-12.4	-17.1	-17.1	-9.2	-12.4	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	-13.4	-16.6	-21.3
PLAY STOP	-21.3 -17.1	-20.7 -17.5	-17.0 -16.5	-17.5 -24.9	-21.3 -12.9	-21.2 -24.9	-12.4 -12.9	-17.5 -24.9	-17.1 -17.1	-17.0 -17.5	-8.2 -12.8	-24.9 -24.9	-28.6 -25.0	-28.6 -25.0	-21.2 -25.0	-24.9 -25.0	-28.6 -25.0	-21.3 -24.9	-8.9 -17.1	-24.9 -24.9
Ref No.		17.5	, 0.0	0	12.0	0	12.0	0		IC7		0	_0.0	_0.0	_0.0	20.0	20.0	0		0
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC PLAY	-25.0 -25.0	-25.0 -25.0	-25.0 -25.0	-25.0 -25.0	-25.0 -25.0	-25.0 -25.0	-25.3 -25.2	-25.3 -25.2	-29.2 -29.2	5.0 5.0	4.9 4.8	4.9 4.9	0	0	4.9 4.9	1.7	0	4.9 4.9	4.9 4.9	4.9 4.9
STOP	-25.0	-25.0		-25.0	-25.0	-25.0	-25.2	-25.2	-29.2	5.0	0	4.9	0	0	4.9	1.7	0	4.9	4.9	4.9
Ref No.			IC7503							IC7	504							IC7505		
MODE REC	1 2.1	3.3	3 0	4 0	5 0		0.1	0.3	3 0.5	4 0	5 0.5	6 4.8	7 4.5	8 4.9		1 4.9	2 4.9	3	4 0	5 0
PLAY	2.1	3.3	0	0	0		0.1	0.3	0.5	0	0.5	4.8	4.5	4.9		4.9	4.9	0	0	0
STOP	2.1	3.3	0	0	0		0	0.1	0.5	0	0.5	4.8	4.5	4.9		4.9	4.9	0	0	0
Ref No. MODE	1	2	3	IC7	507 5	6	7	8									.			\vdash
REC	5.6	1.7	1.7	0	1.7	1.7	1.7	13.8												
PLAY	5.6	1.7	1.7	0	1.7	1.7	1.7	13.9												
STOP	5.6	1.8	1.7	0	1.7	1.7 Q3002	1.8	13.9		Q3003				Q3004			-	Q3005		
₩ A+ NIA		USUU1				ૡ ૱∪∪2			-	_	В		Е	Q3004 C						\vdash
Ref No. MODE	Е	Q3001 C	В		Е	С	В		E	С					В		E	С	В	
MODE REC	2.1	C 0	1.4		1.8	0	1.1		1.9	0	1.1		2.2	0	1.6		3.4	C 4.8	3.4	
MODE REC PLAY	2.1 2.1	0 0	1.4 1.4		1.8 1.8	0	1.1		1.9 1.8	0	1.1		2.2	0	1.6 1.6		3.4 3.4	4.8 4.8	3.4 3.4	
MODE REC PLAY STOP	2.1	C 0	1.4		1.8	0	1.1		1.9	0	1.1			0	1.6		3.4	4.8	3.4	
MODE REC PLAY STOP Ref No. MODE	2.1 2.1	0 0 0	1.4 1.4		1.8 1.8	0 0 0	1.1		1.9 1.8	0 0 0	1.1 1.1 1.1		2.2	0 0 0	1.6 1.6		3.4 3.4	4.8 4.8 4.8	3.4 3.4	
MODE REC PLAY STOP Ref No. MODE REC	2.1 2.1 2.1 E 4.9	C 0 0 0 Q3006 C 0.5	1.4 1.4 1.4 B 4.8		1.8 1.8 1.8 1.7	0 0 0 Q3007 C	1.1 1.1 1.1 B 1.0		1.9 1.8 1.9 E	0 0 0 Q3008 C 4.9	1.1 1.1 1.1 B 1.7		2.2 2.2 E 1.7	0 0 0 Q3009 C	1.6 1.6 1.6 B		3.4 3.4 3.4 E 1.1	4.8 4.8 4.8 Q3010 C 4.9	3.4 3.4 3.4 B 1.7	
MODE REC PLAY STOP Ref No. MODE REC PLAY	2.1 2.1 2.1 E 4.9 4.9	C 0 0 0 Q3006 C 0.5 0.5	1.4 1.4 1.4 8 4.8		1.8 1.8 1.8 E 1.7	0 0 0 Q3007 C 0	1.1 1.1 1.1 B 1.0		1.9 1.8 1.9 E 1.1 1.1	0 0 0 Q3008 C 4.9 4.9	1.1 1.1 1.1 B 1.7		2.2 2.2 E 1.7	0 0 0 Q3009 C 0	1.6 1.6 1.6 B 1.0		3.4 3.4 3.4 E 1.1	4.8 4.8 4.8 Q3010 C 4.9 4.9	3.4 3.4 3.4 B 1.7	
MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No.	2.1 2.1 2.1 E 4.9	C 0 0 0 Q3006 C 0.5	1.4 1.4 1.4 B 4.8		1.8 1.8 1.8	0 0 0 Q3007 C	1.1 1.1 1.1 B 1.0		1.9 1.8 1.9 E	0 0 0 Q3008 C 4.9	1.1 1.1 1.1 B 1.7		2.2 2.2 E 1.7	0 0 0 Q3009 C	1.6 1.6 1.6 B		3.4 3.4 3.4 E 1.1	4.8 4.8 4.8 Q3010 C 4.9	3.4 3.4 3.4 B 1.7	
MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE	2.1 2.1 2.1 E 4.9 4.9	C 0 0 0 Q3006 C 0.5 0.5 Q3011	1.4 1.4 1.4 1.4 B 4.8 4.8		1.8 1.8 1.8 E 1.7 1.7	0 0 0 Q3007 C 0 0 Q3012 C	1.1 1.1 1.1 B 1.0 1.0		1.9 1.8 1.9 E 1.1 1.1	0 0 0 Q3008 C 4.9 4.9 Q3015	1.1 1.1 1.1 B 1.7 1.7		2.2 2.2 E 1.7 1.7 1.7	0 0 0 Q3009 C 0 0 Q4004	1.6 1.6 1.6 B 1.0 1.0		3.4 3.4 3.4 E 1.1 1.1	4.8 4.8 Q3010 C 4.9 4.9 4.9 Q4006 C	3.4 3.4 3.4 B 1.7 1.7	
MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE REC	2.1 2.1 2.1 E 4.9 4.9 4.9	C 0 0 0 Q3006 C 0.5 0.5 Q3011 C 1.1	1.4 1.4 1.4 1.4 B 4.8 4.8 4.8		1.8 1.8 1.8 1.7 1.7 1.7	0 0 0 Q3007 C 0 0 0 Q3012 C	1.1 1.1 1.1 B 1.0 1.0 1.0		1.9 1.8 1.9 E 1.1 1.1 1.1 E 2.2	0 0 0 Q3008 C 4.9 4.9 Q3015 C	1.1 1.1 1.1 B 1.7 1.7 1.7		2.2 2.2 E 1.7 1.7 1.7 4.9	0 0 0 Q3009 C 0 0 0 Q4004 C	1.6 1.6 1.6 B 1.0 1.0 1.0		3.4 3.4 3.4 E 1.1 1.1 E 0	4.8 4.8 4.8 Q3010 C 4.9 4.9 4.9 Q4006 C	3.4 3.4 3.4 B 1.7 1.7 1.7	
MODE REC PLAY STOP Ref No. MODE REC PLAY STOP Ref No. MODE	2.1 2.1 2.1 E 4.9 4.9	C 0 0 0 Q3006 C 0.5 0.5 Q3011	1.4 1.4 1.4 1.4 B 4.8 4.8		1.8 1.8 1.8 E 1.7 1.7	0 0 0 Q3007 C 0 0 Q3012 C	1.1 1.1 1.1 B 1.0 1.0		1.9 1.8 1.9 E 1.1 1.1	0 0 0 Q3008 C 4.9 4.9 Q3015	1.1 1.1 1.1 B 1.7 1.7		2.2 2.2 E 1.7 1.7 1.7	0 0 0 Q3009 C 0 0 Q4004	1.6 1.6 1.6 B 1.0 1.0		3.4 3.4 3.4 E 1.1 1.1	4.8 4.8 Q3010 C 4.9 4.9 4.9 Q4006 C	3.4 3.4 3.4 B 1.7 1.7	
MODE REC PLAY STOP Ref No. REC PLAY STOP Ref No.	2.1 2.1 2.1 E 4.9 4.9 4.9 4.1 E 1.1	C 0 0 0 Q3006 C 0.5 0.5 Q3011 C 1.1 1.1 Q4007	1.4 1.4 1.4 1.4 B 4.8 4.8 4.8 0 0		1.8 1.8 1.8 1.7 1.7 1.7 1.7	0 0 0 Q3007 C 0 0 Q3012 C 4.7 4.7	B 1.0 1.0 1.0 1.0 2 0.2 0.2		1.9 1.8 1.9 E 1.1 1.1 1.1 2.2 2.2 2.2	0 0 0 Q3008 C 4.9 4.9 Q3015 C 0 0	B 1.7 1.7 1.7 1.7 1.7 1.6 1.6		E 1.7 1.7 1.7 E 4.9 4.9	0 0 0 0 0 0 0 0 0 0 0 Q4004 C 0 -0.1 -0.3 Q7502	1.6 1.6 1.6 1.0 1.0 1.0 1.0 4.9 4.9		3.4 3.4 3.4 3.4 E 1.1 1.1 1.1 0 0	4.8 4.8 Q3010 C 4.9 4.9 4.9 Q4006 C 0 0 0	3.4 3.4 3.4 3.7 1.7 1.7 1.7 -0.2 -0.2	
MODE REC PLAY STOP Ref No. MODE	2.1 2.1 2.1 E 4.9 4.9 4.9 1.1 1.1	C 0 0 0 0 Q3006 C 0.5 0.5 Q3011 C 1.1 1.1 Q4007 C	1.4 1.4 1.4 1.4 8 4.8 4.8 4.8 0 0		1.8 1.8 1.8 1.7 1.7 1.7 1.7 0 0	0 0 0 Q3007 C 0 0 0 Q3012 C 4.7 4.7 4.7	B 0.2 0.2 0.2 B		1.9 1.8 1.9 E 1.1 1.1 1.1 2.2 2.2 2.2	0 0 0 0 Q3008 C 4.9 4.9 Q3015 C 0 0 0 Q7501	B 1.7 1.7 1.7 1.7 1.7 1.6 1.6 1.6		E 1.7 1.7 1.7 E 4.9 4.9	0 0 0 0 0 0 0 0 0 0 0 0 0 -0.1 -0.3 Q7502	1.6 1.6 1.6 1.0 1.0 1.0 1.0 4.9 4.9		3.4 3.4 3.4 3.4 E 1.1 1.1 1.1 0 0	4.8 4.8 Q3010 C 4.9 4.9 Q4006 C 0 0 0 Q7509	3.4 3.4 3.4 1.7 1.7 1.7 2.0.2 -0.2 -0.3	
MODE REC PLAY STOP Ref No. REC PLAY STOP Ref No.	2.1 2.1 2.1 E 4.9 4.9 4.9 4.1 E 1.1 1.1	C 0 0 0 Q3006 C 0.5 0.5 Q3011 C 1.1 1.1 Q4007	1.4 1.4 1.4 1.4 B 4.8 4.8 4.8 0 0		1.8 1.8 1.8 1.7 1.7 1.7 1.7	0 0 0 Q3007 C 0 0 Q3012 C 4.7 4.7	B 1.0 1.0 1.0 1.0 2 0.2 0.2		1.9 1.8 1.9 E 1.1 1.1 1.1 2.2 2.2 2.2	0 0 0 Q3008 C 4.9 4.9 Q3015 C 0 0	B 1.7 1.7 1.7 1.7 1.7 1.6 1.6		E 1.7 1.7 1.7 E 4.9 4.9	0 0 0 0 0 0 0 0 0 0 0 Q4004 C 0 -0.1 -0.3 Q7502	1.6 1.6 1.6 1.0 1.0 1.0 1.0 4.9 4.9		3.4 3.4 3.4 3.4 E 1.1 1.1 1.1 0 0	4.8 4.8 Q3010 C 4.9 4.9 4.9 Q4006 C 0 0 0	3.4 3.4 3.4 3.7 1.7 1.7 1.7 -0.2 -0.2	

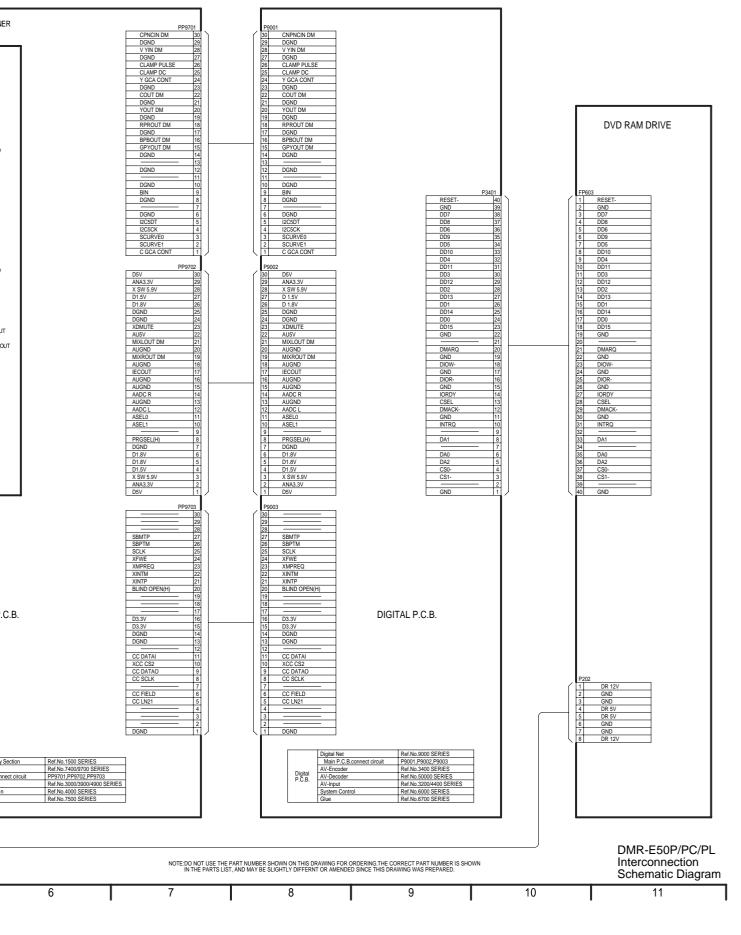
Ref No.		Q7510			Q7511											
MODE	Е	С	В	Е	С	В										
REC	-25.3	4.9	-25.2	-25.3	4.9	-25.2										
PLAY	-25.4	4.9	-25.3	-25.3	4.9	-25.3										
STOP	-25.2	4.9	-25.2	-25.2	4.9	-25.2										
Ref No.		QR3001			QR3002			QR3004			QR3005			QR3006	i	
MODE	Е	С	В	Е	О	В	Е	С	В	Е	С	В	Е	С	В	
REC	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8	
PLAY	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8	
STOP	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8	
Ref No.		QR3007			QR3008			QR3009			QR3010			QR3011		
MODE	Е	С	В	Е	С	В	Е	С	В	Е	С	В	Е	С	В	
REC	0	0	4.8	0	0	4.8	0	0.2	0	0	0	4.8	4.9	0.1	4.7	
PLAY	0	0	4.8	0	0	4.8	0	0.1	0	0	0	4.8	4.9	0.1	4.7	
STOP	0	0	4.8	0	0	4.8	0	0.1	0	0	0	4.8	4.9	0.1	4.7	
Ref No.		QR4002			QR4003			QR4004			QR4005			QR4006	i	
MODE	Е	С	В	Е	С	В	Е	С	В	Е	С	В	Е	С	В	
REC	0	0	4.9	0	0	2.3	0	4.9	0	0	4.9	0	0	0	4.8	
PLAY	0	0	4.9	0	0	2.3	0	4.9	0	0	4.9	0	0	0	4.8	
STOP	0	0	4.9	0	0	2.3	0	4.9	0	0	4.9	0	0	0	4.8	
Ref No.		QR4007			QR4010			QR4011			QR4012	!		QR7401		
MODE	E	С	В	E	С	В	E	С	В	Е	С	В	E	С	В	
REC	0	13.1	0	0	11.9	0	0	11.9	0	0	5.7	0	0	3.3	0	
PLAY	0	13.2	0	0	11.9	0	0	11.9	0	0	5.7	0	0	3.3	0	
STOP	0	13.3	0	0	11.9	0	0	11.9	0	0	5.7	0	0	3.3	0	
Ref No.		QR7501			QR7504											
MODE	Е	С	В	E	С	В										
REC	0	0	2.1	4.9	-1.5	4.8										
PLAY	0	0	2.1	4.9	-1.5	4.8										
STOP	0	0	2.2	4.9	-1.5	4.8										

Ref No.	P9001 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.6	3.2	0	4.9	4.9	0		0		0	•	0	-	0	1.1	1.1	0	1.0	0	1.2
PLAY	1.6	3.2	0	4.9	4.9	0		0		0		0		0	1.1	1.1	0	1.0	0	1.2
STOP	1.6	3.2	0	4.9	4.9	0		0		0		0		0	1.1	1.1	0	1.0	0	1.2
Ref No.										P9	001									
MODE	21	22	23	24	25	26	27	28	29	30										
REC	0	1.5	0	1.8	1.8	0.2	0	1.6	0	1.9										
PLAY	0	1.5	0	1.8	1.8	0.1	0	1.6	0	1.9										
STOP	0	1.5	0	1.8	1.8	0.1	0	1.6	0	1.9										
Ref No.										P9	002									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	3.3	5.9	1.5	1.8	1.8	0	4.8	0	0	0	2.5	0	2.5	0	0	1.6	0	2.5	0
PLAY	5.0	3.3	5.9	1.5	1.8	1.8	0	4.8	0	0	0	2.5	0	2.5	0	0	1.6	0	2.5	0
STOP	5.0	3.3	5.9	1.5	1.8	1.8	0	4.8	0	0	0	2.5	0	2.5	0	0	1.6	0	2.5	0
Ref No.											002									
MODE \	21	22	23	24	25	26	27	28	29	30										
REC	2.5	5.0	2.3	0	0	1.8	1.5	6.0	3.3	5.0										
PLAY	2.5	5.0	2.3	0	0	1.8	1.5	5.9	3.3	5.0										
STOP	2.5	5.0	2.3	0	0	1.8	1.5	5.9	3.3	5.0										
Ref No.											003									
MODE \	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	4.8	5.0	4.6	3.2	5.0	-	5.0	0.1	5.0	0.1	-	0	0	3.3	3.3	4.9	-	-	-0.1
PLAY	0	4.8	5.0	4.6	3.3	5.0	-	5.0	0.1	5.0	0.1	-	0	0	3.3	3.3	5.0	-	-	-0.1
STOP	0	4.8	5.0	4.6	3.3	5.0	-	5.0	0.1	5.0	0.1	-	0	0	3.3	3.3	4.9	-	-	-0.1
Ref No.											003									
MODE \	21	22	23	24	25	26	27	28	29	30										
REC	4.9	5.0	5.0	4.7	4.9	4.8	5.0	0	-	-										
PLAY	4.9	5.0	5.0	4.7	4.9	4.9	5.0	0	-	-										
STOP	4.9	5.0	5.0	4.7	4.9	0.2	5.0	0	-	-										

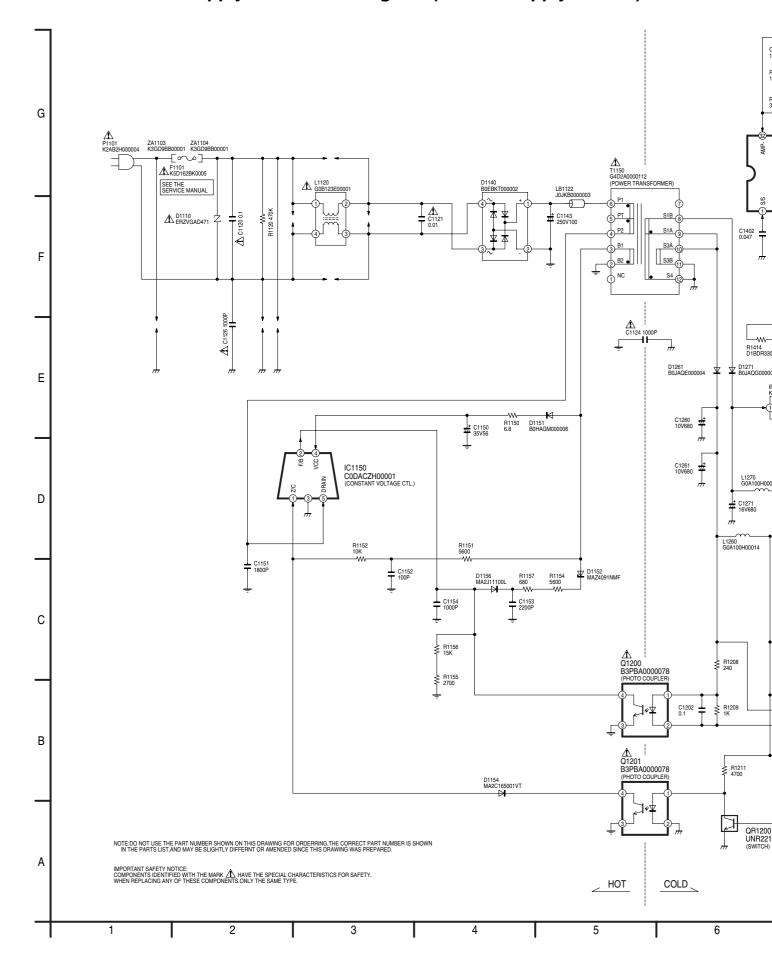
14 Schematic Diagram

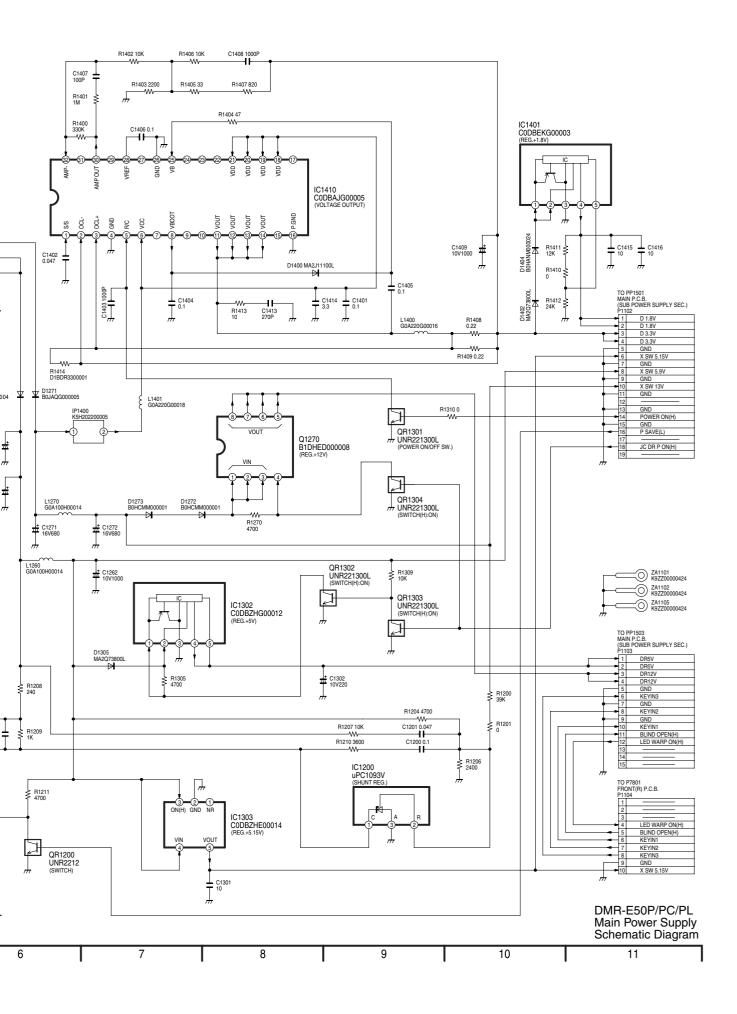
14.1. Interconnection Schematic Diagram



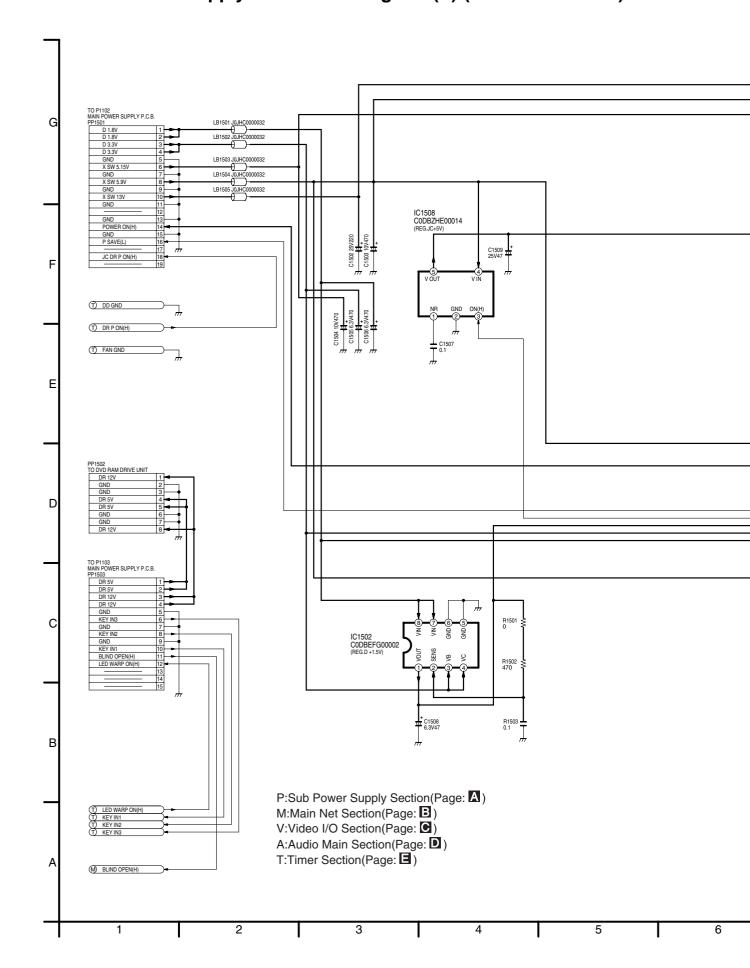


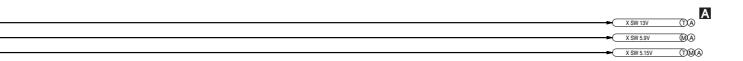
14.2. Main Power Supply Schematic Diagram (Power Supply P.C.B.)



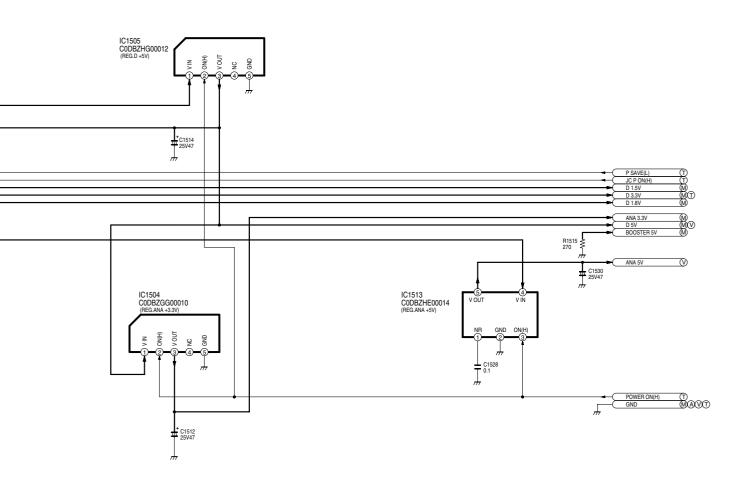


14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)





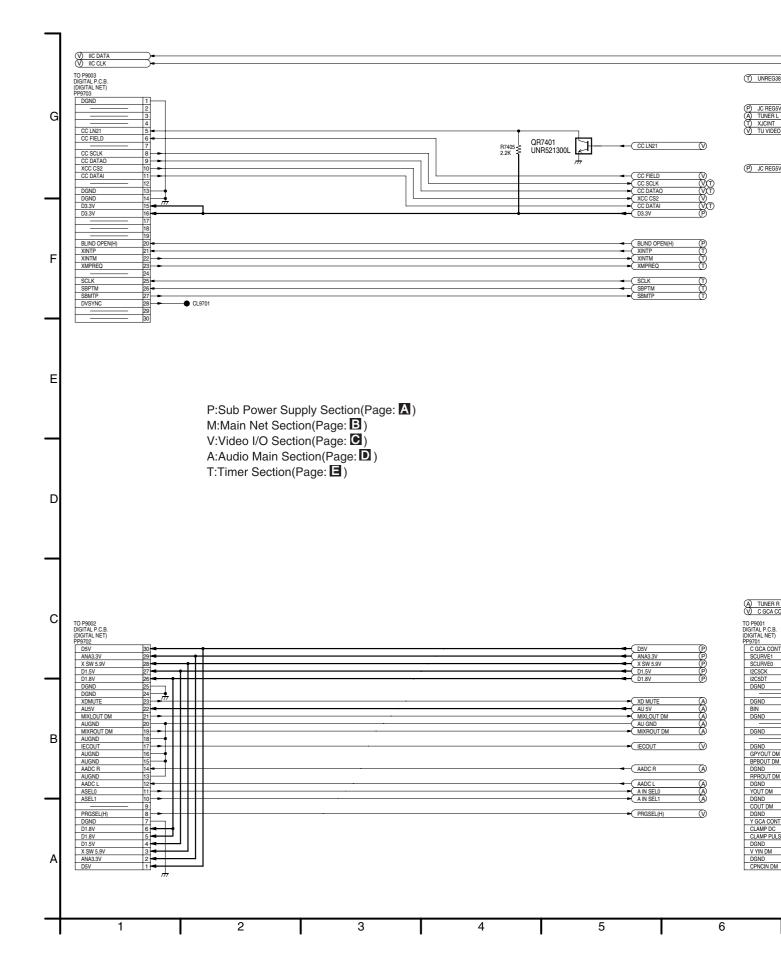


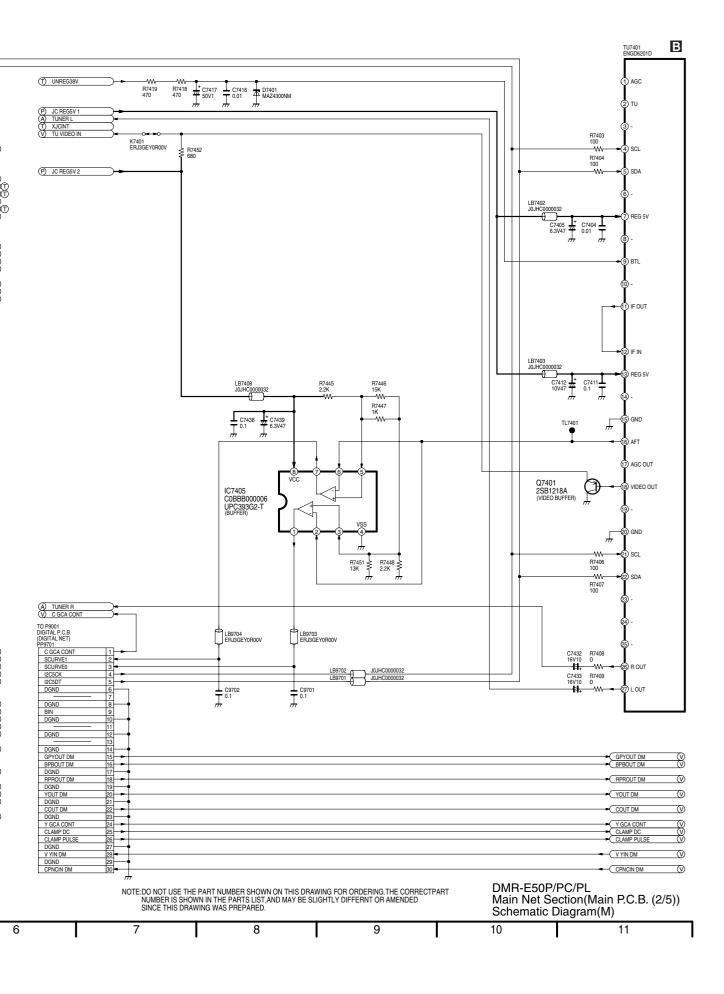


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

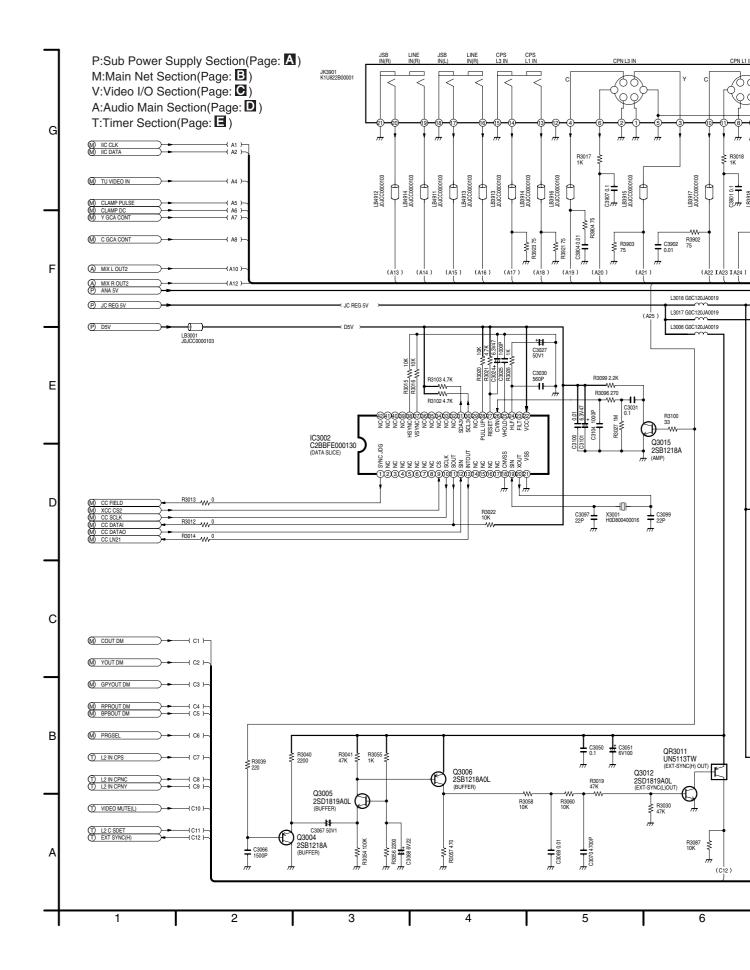
6 7 8 9 10 11

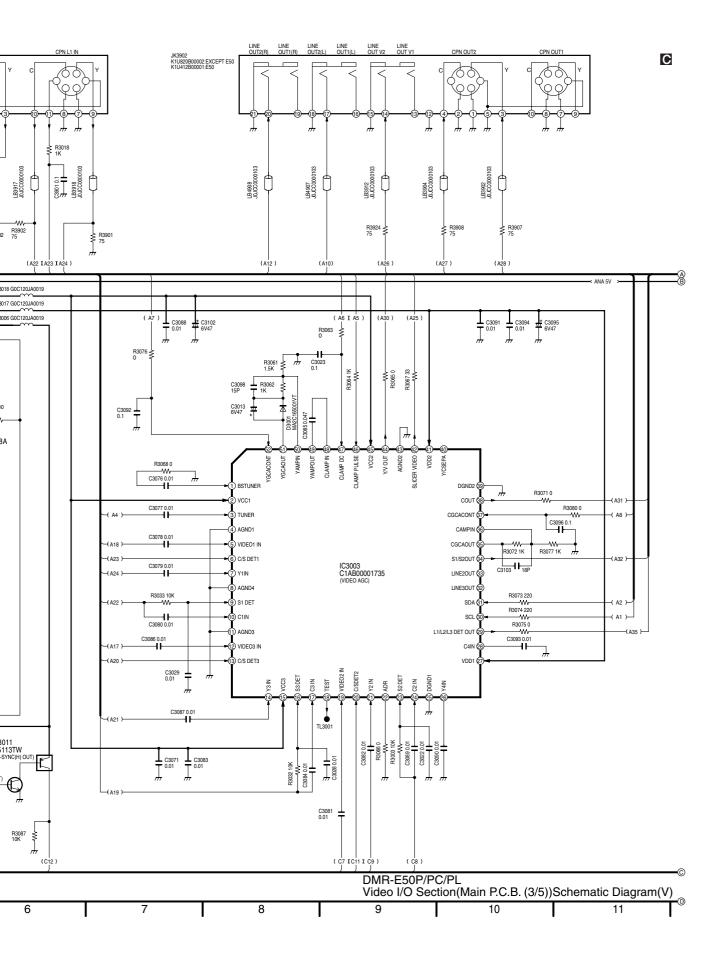
14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)

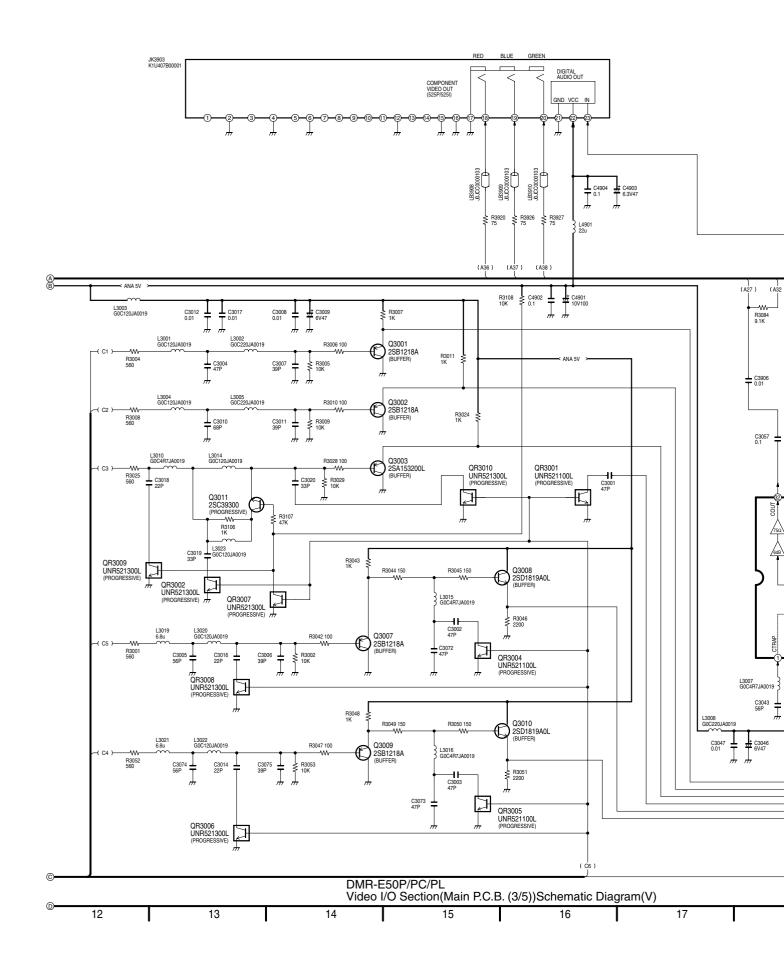




14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)







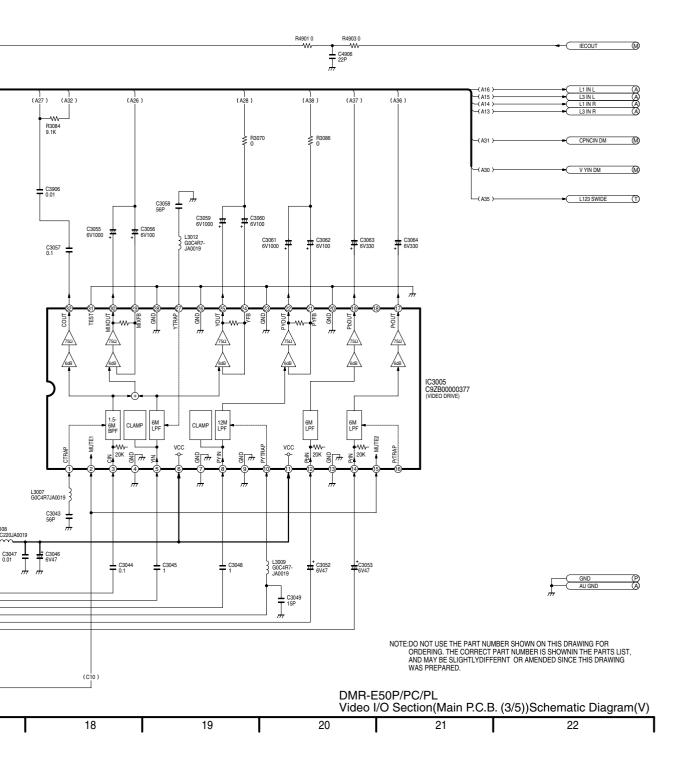
P:Sub Power Supply Section(Page: ♠)
M:Main Net Section(Page: ♠)

C

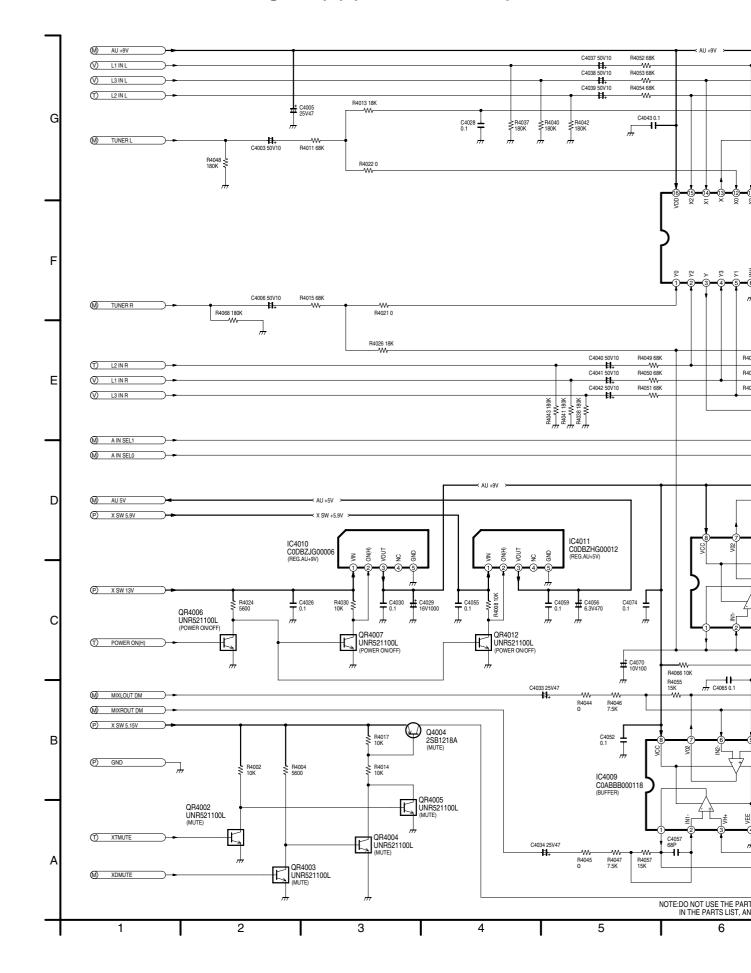
V:Video I/O Section(Page: C)

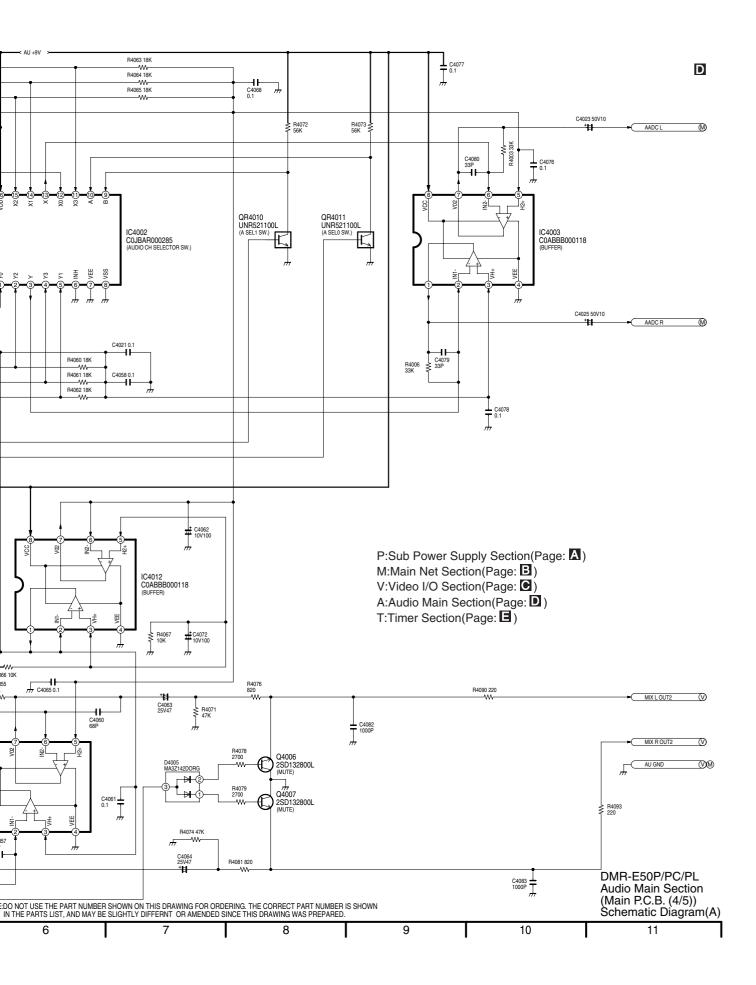
A:Audio Main Section(Page: D)

T:Timer Section(Page: 1)

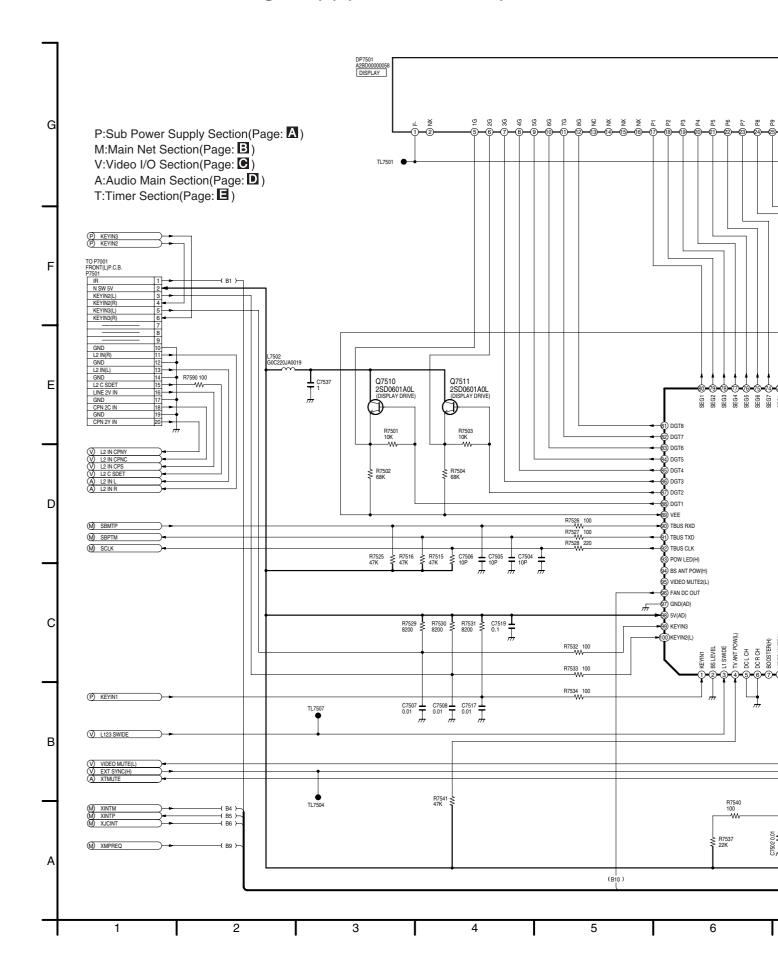


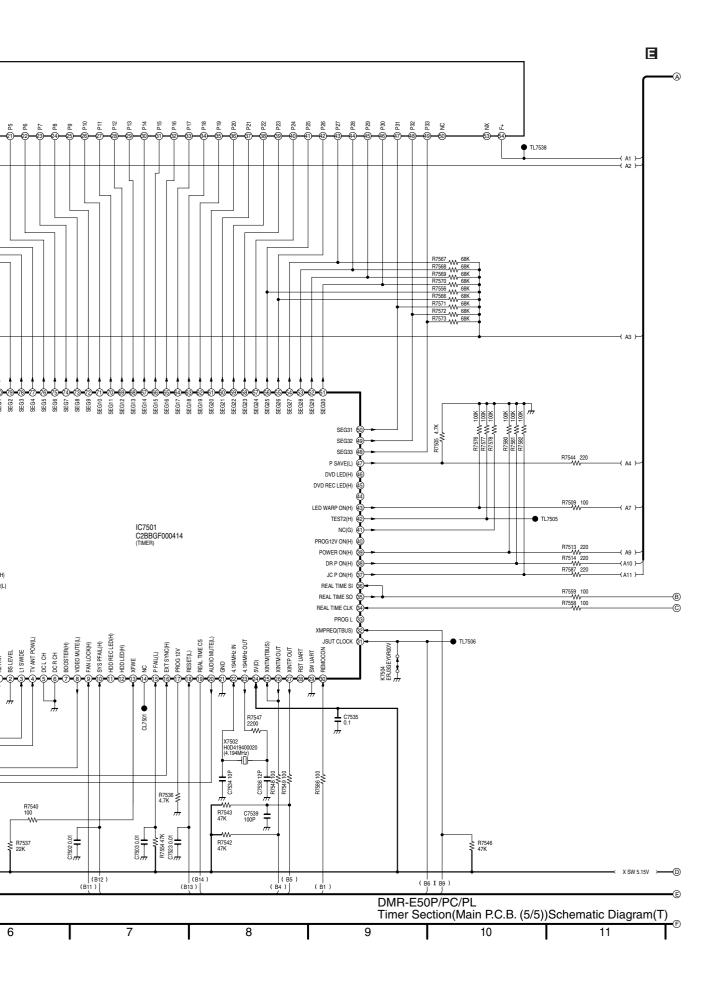
14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)

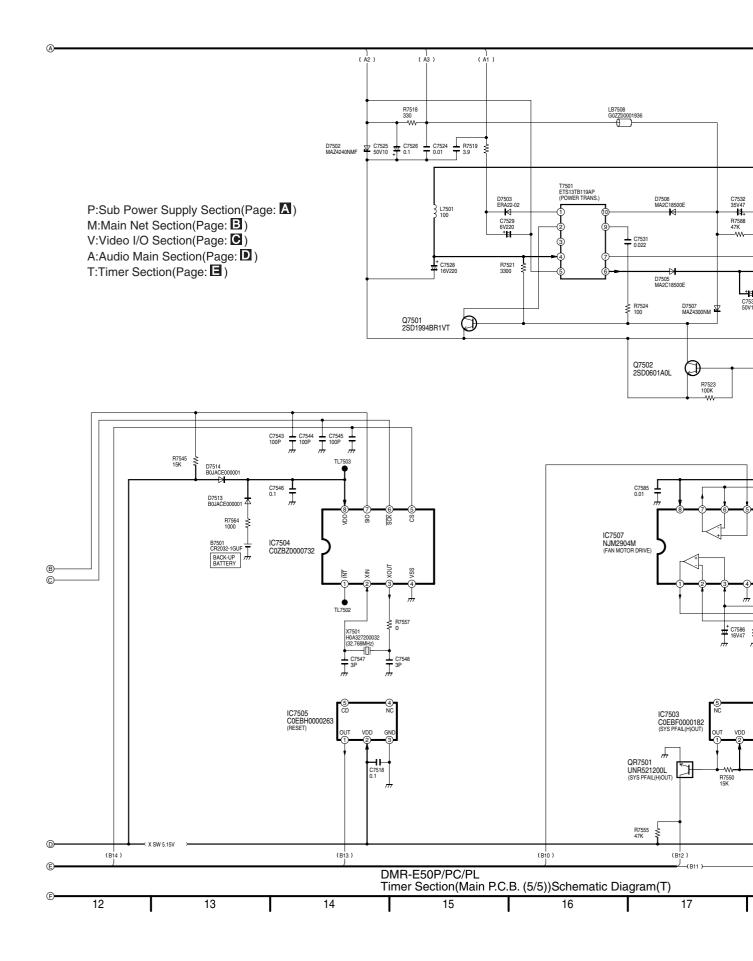


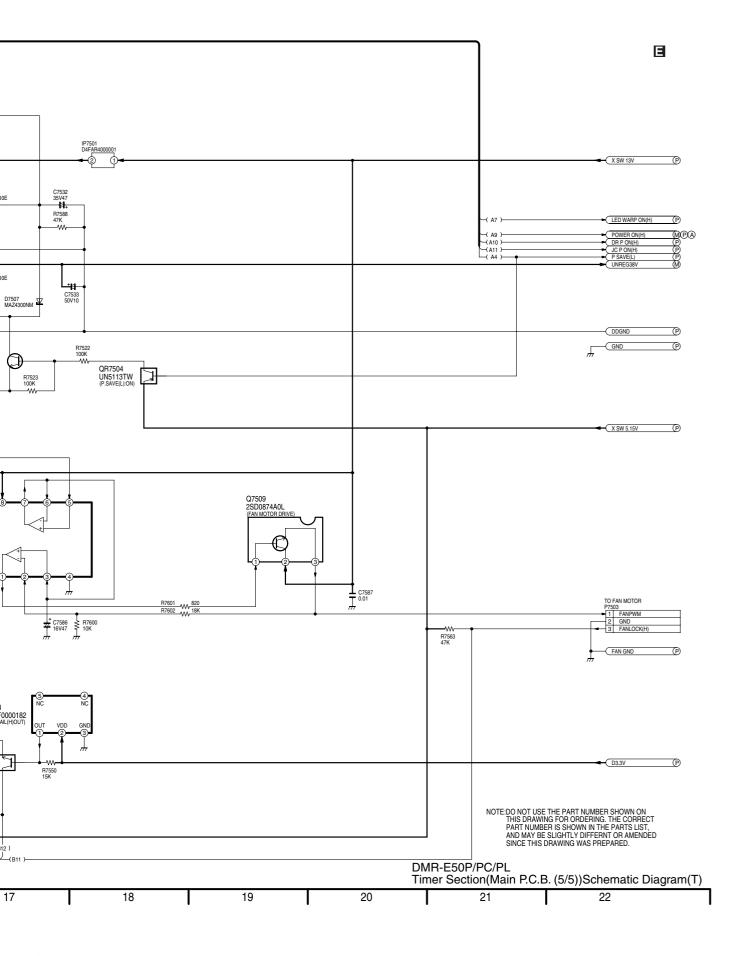


14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)

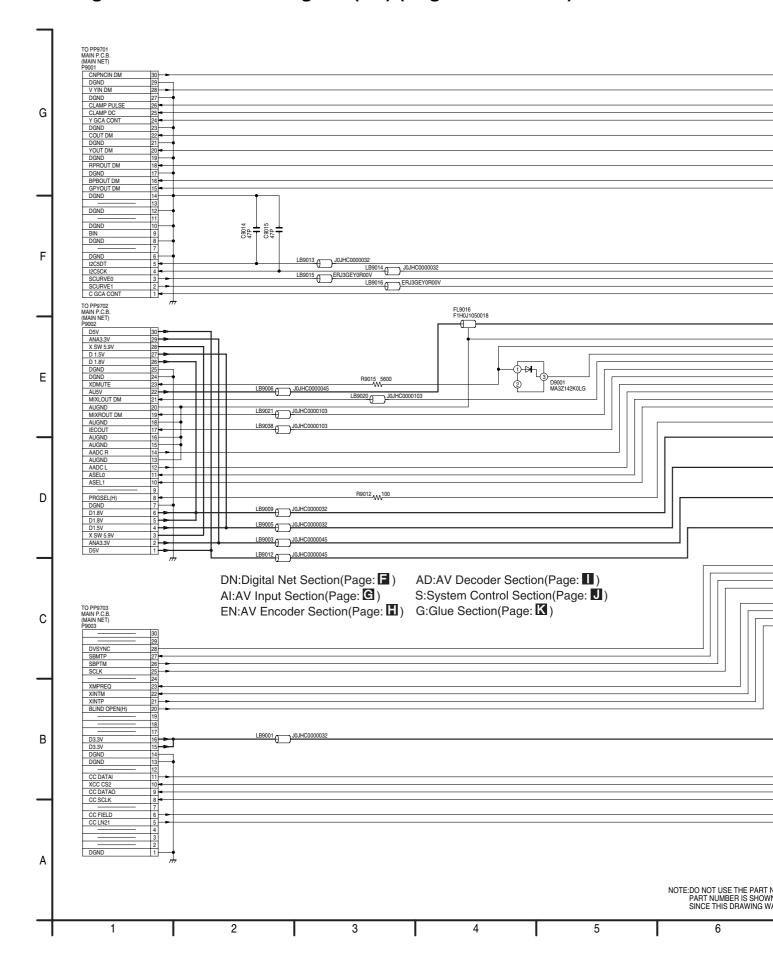


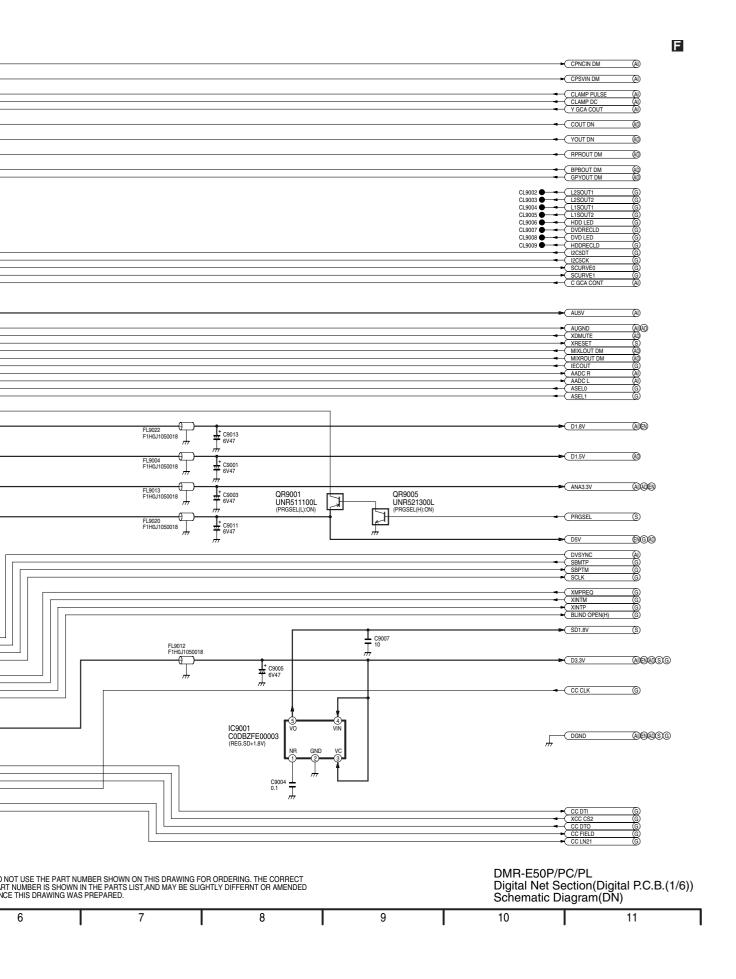




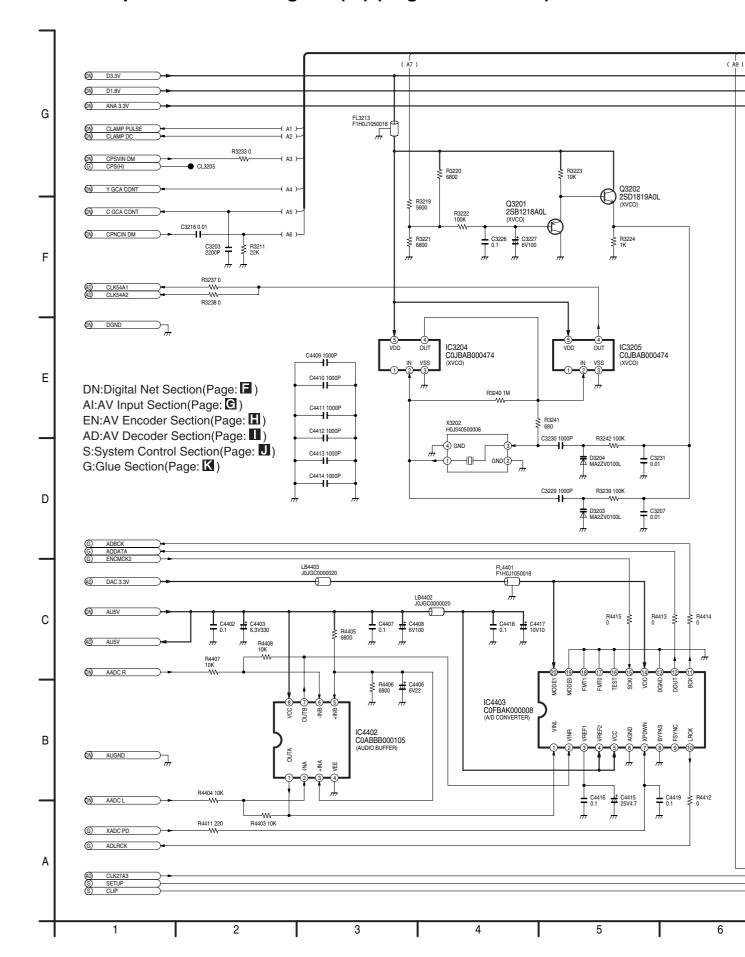


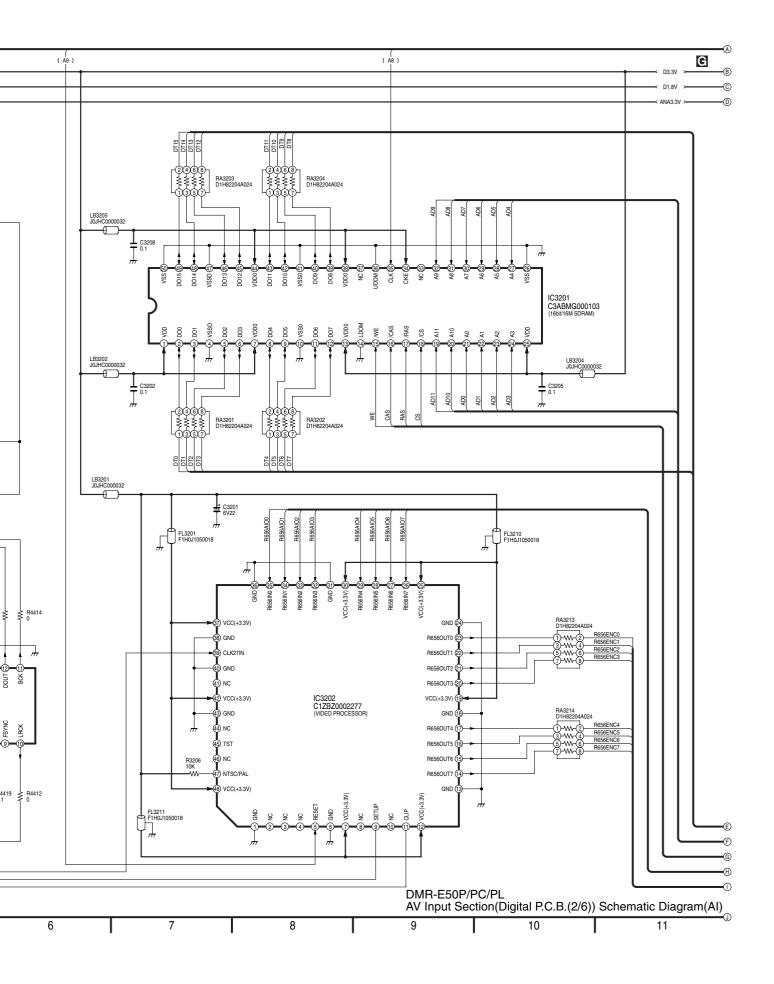
14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/6)



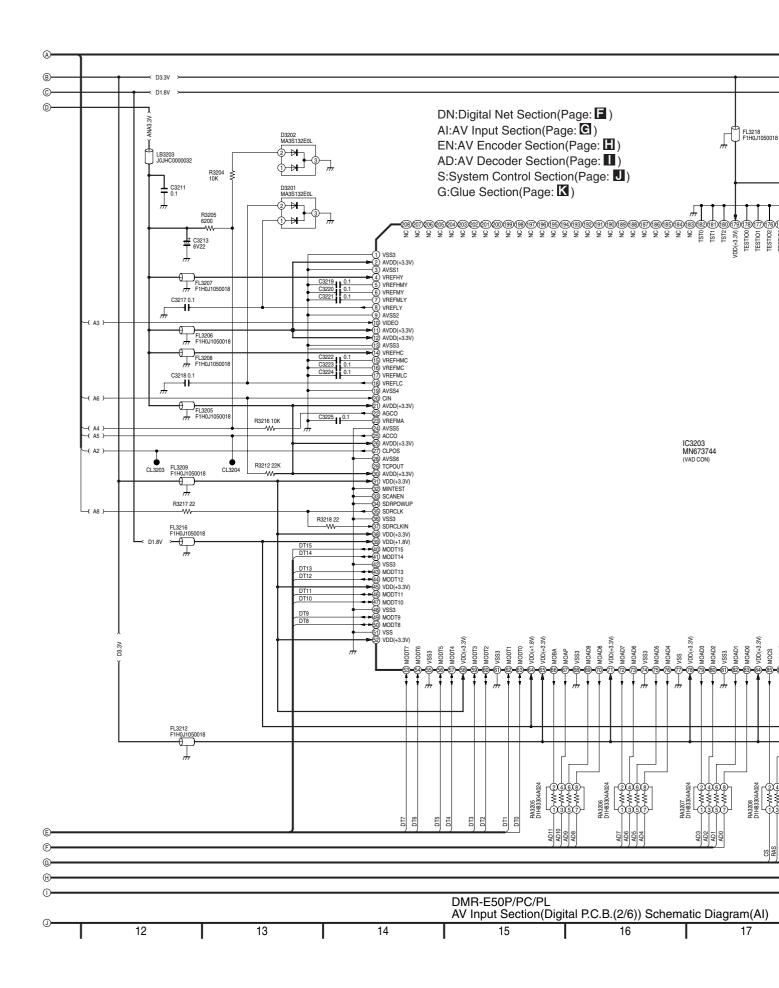


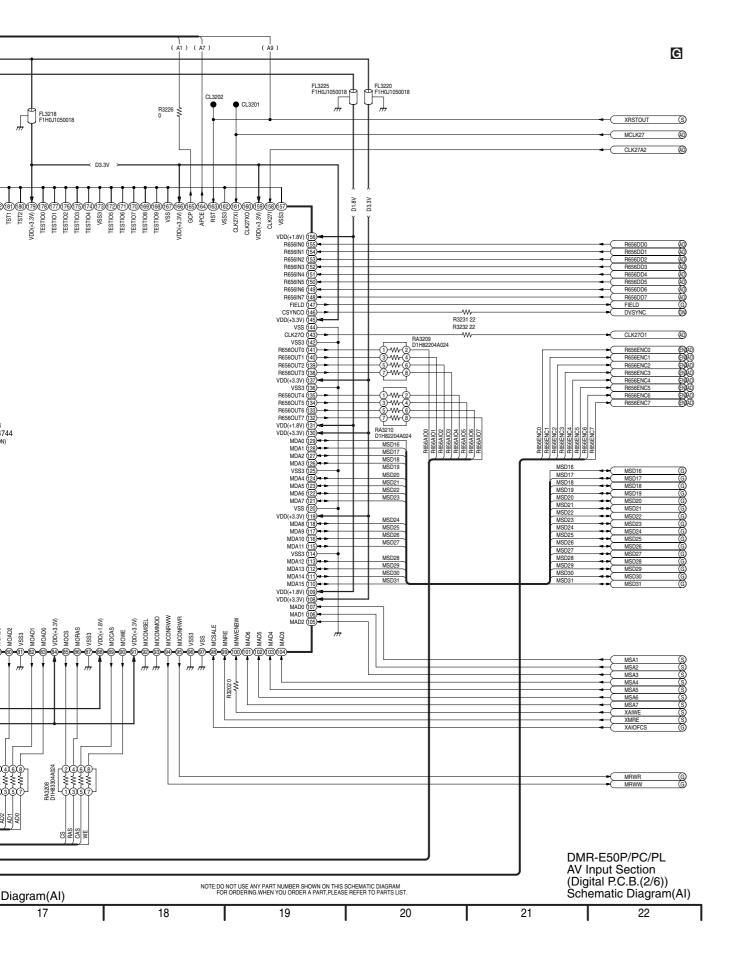
14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/6)



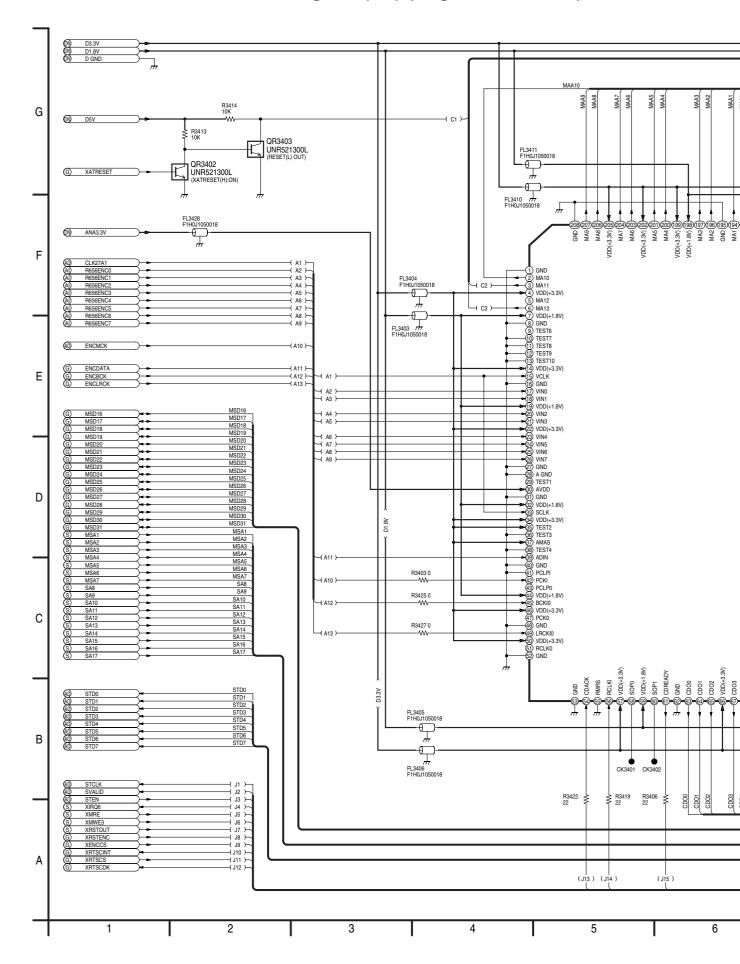


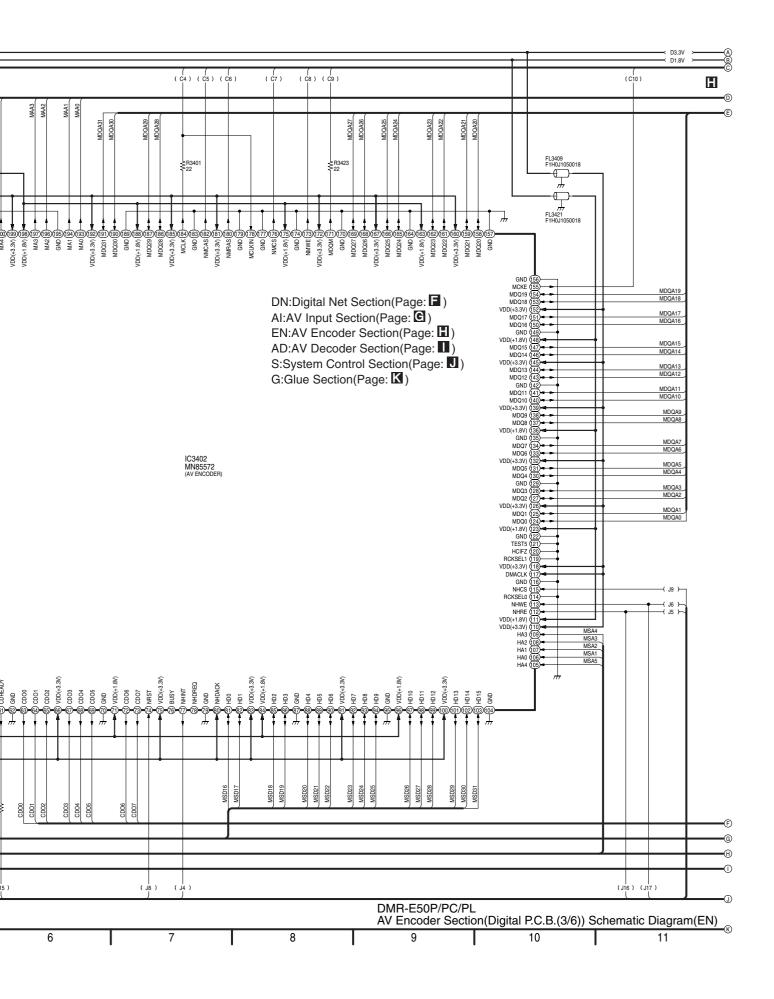


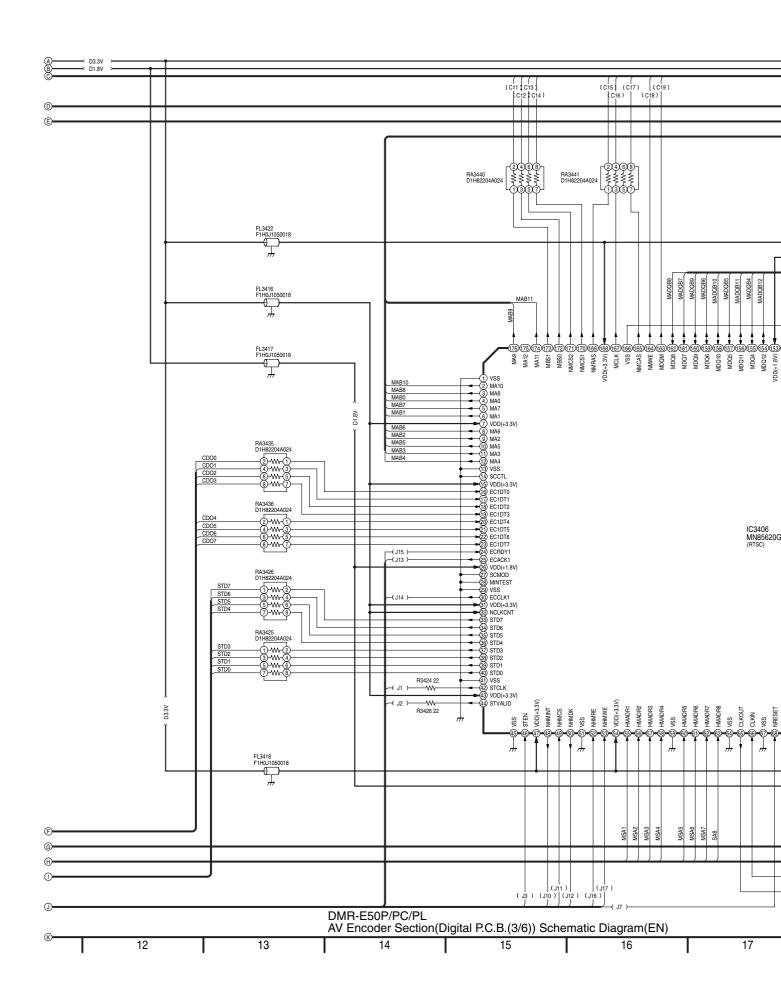


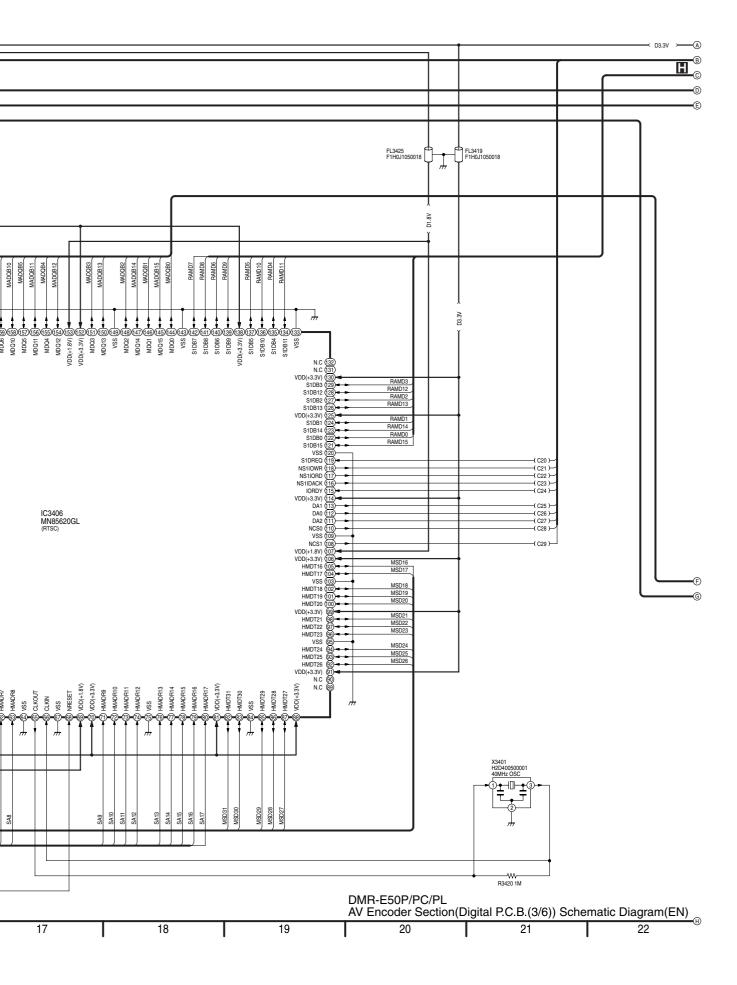


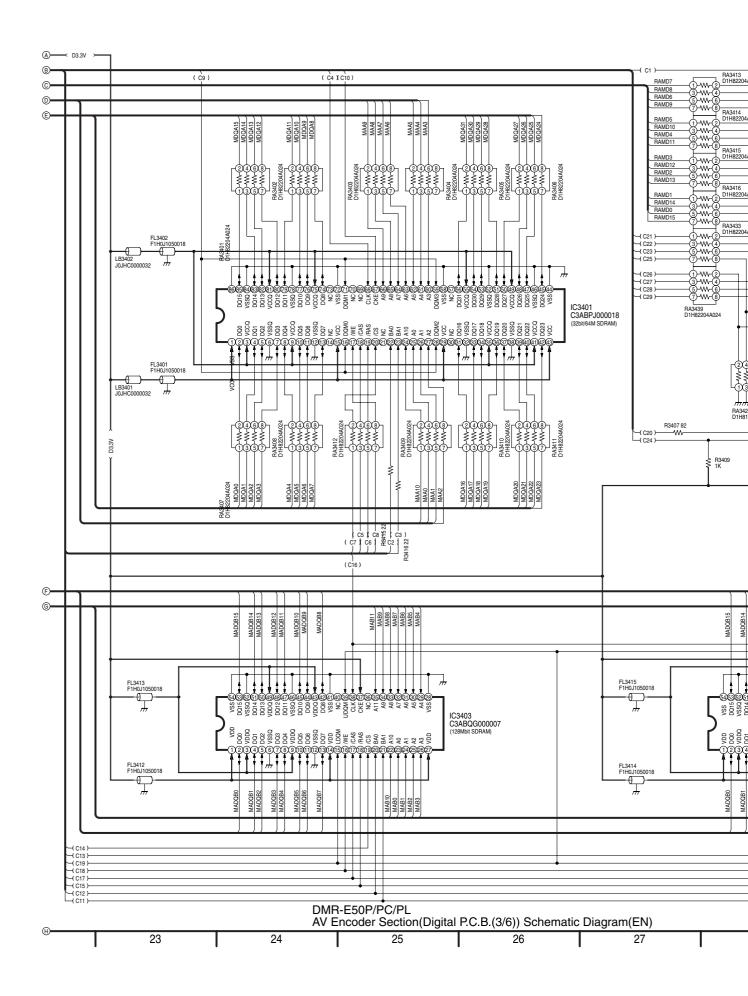
14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/6)



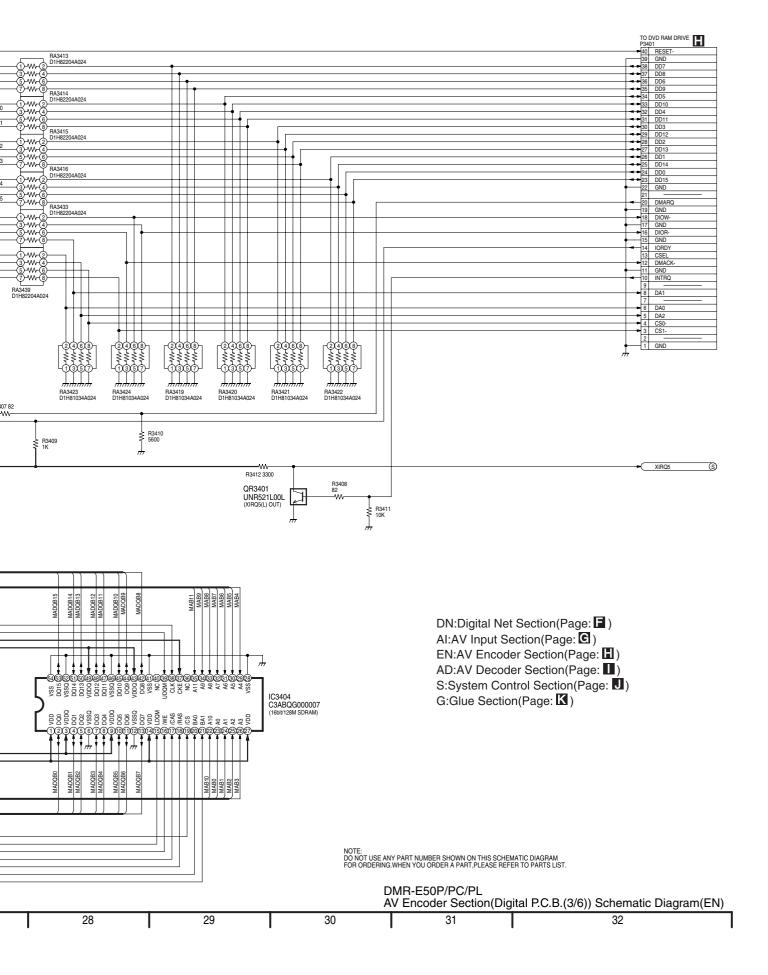




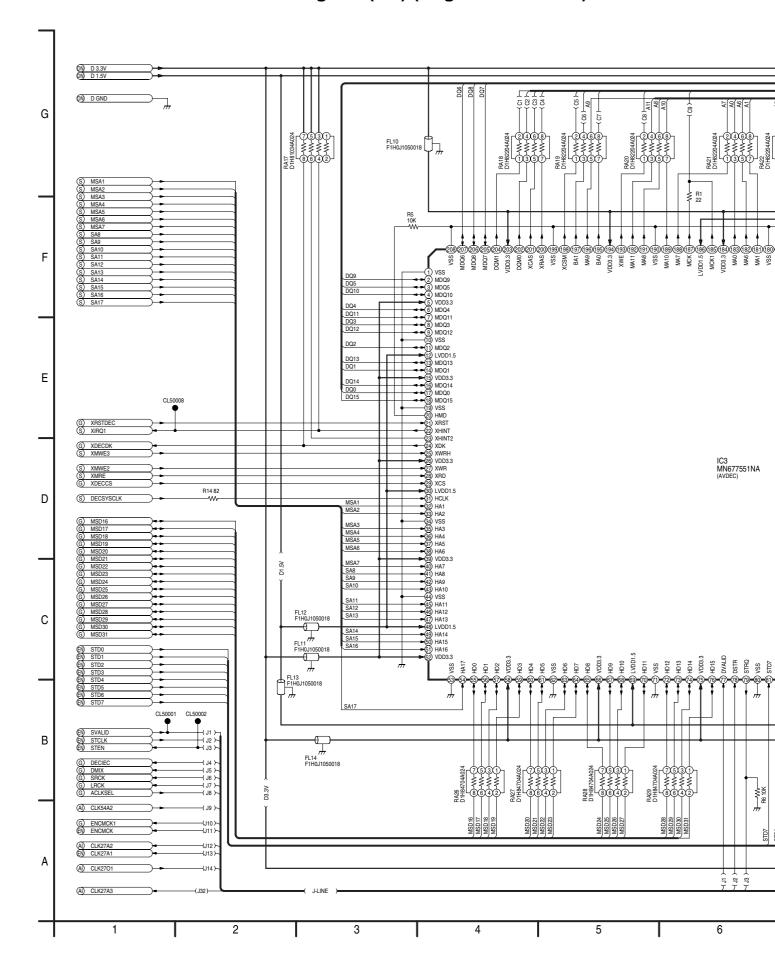


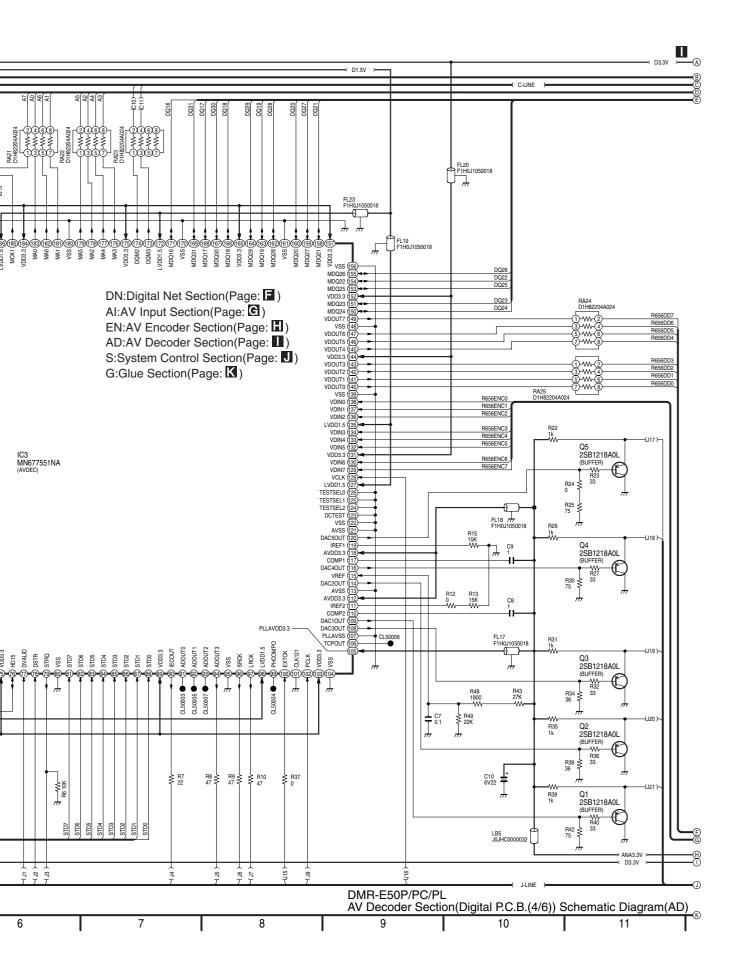


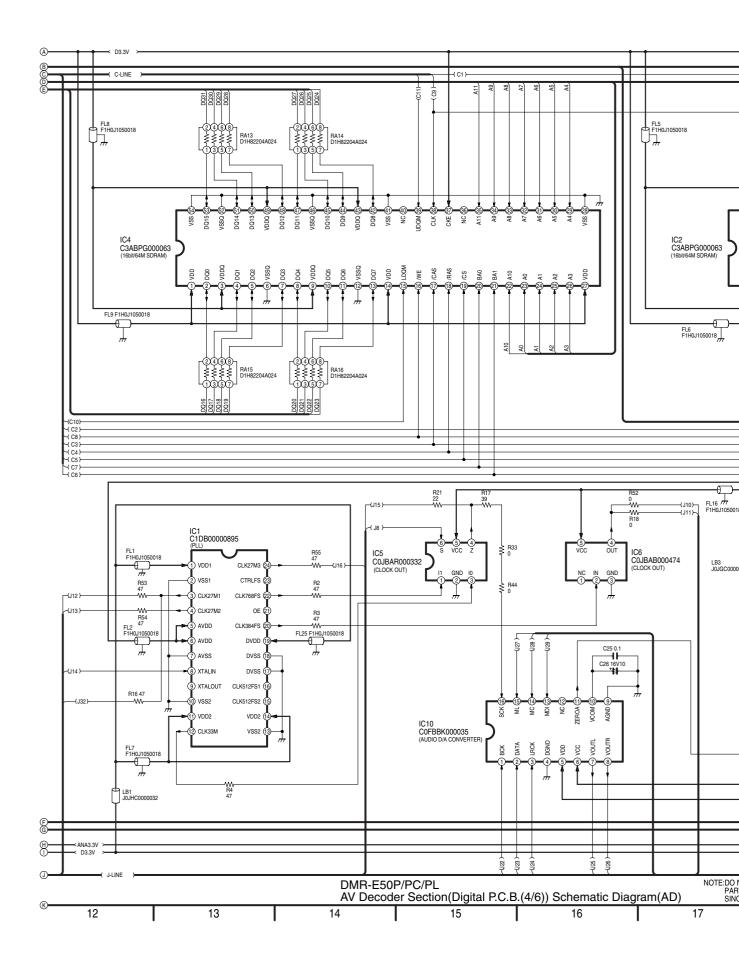


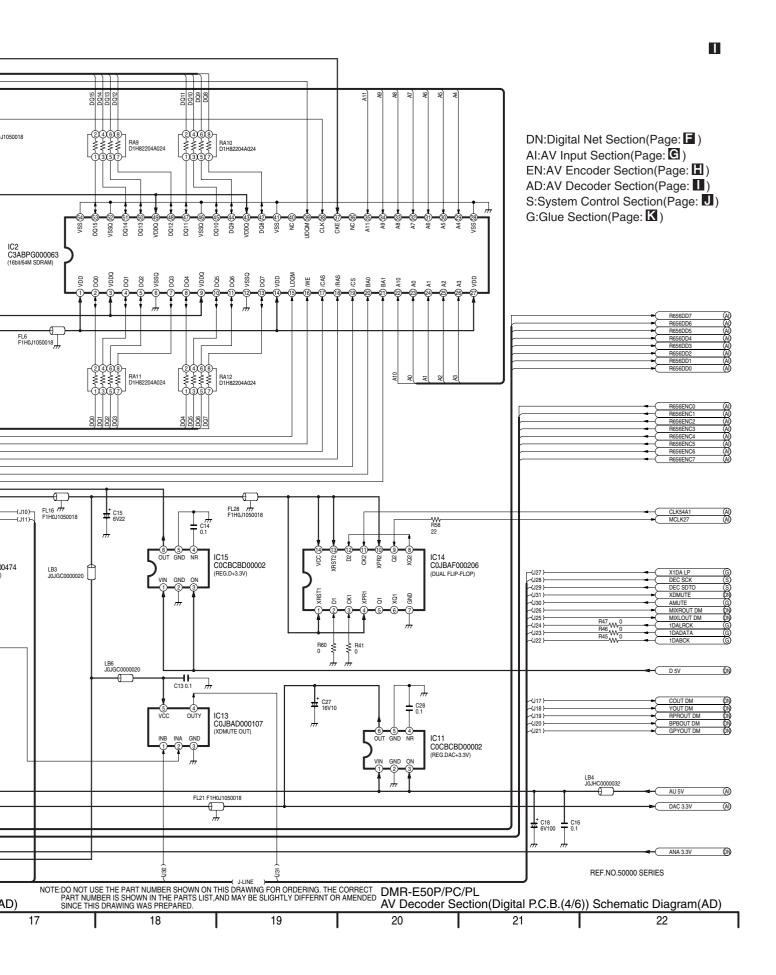


14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/6)

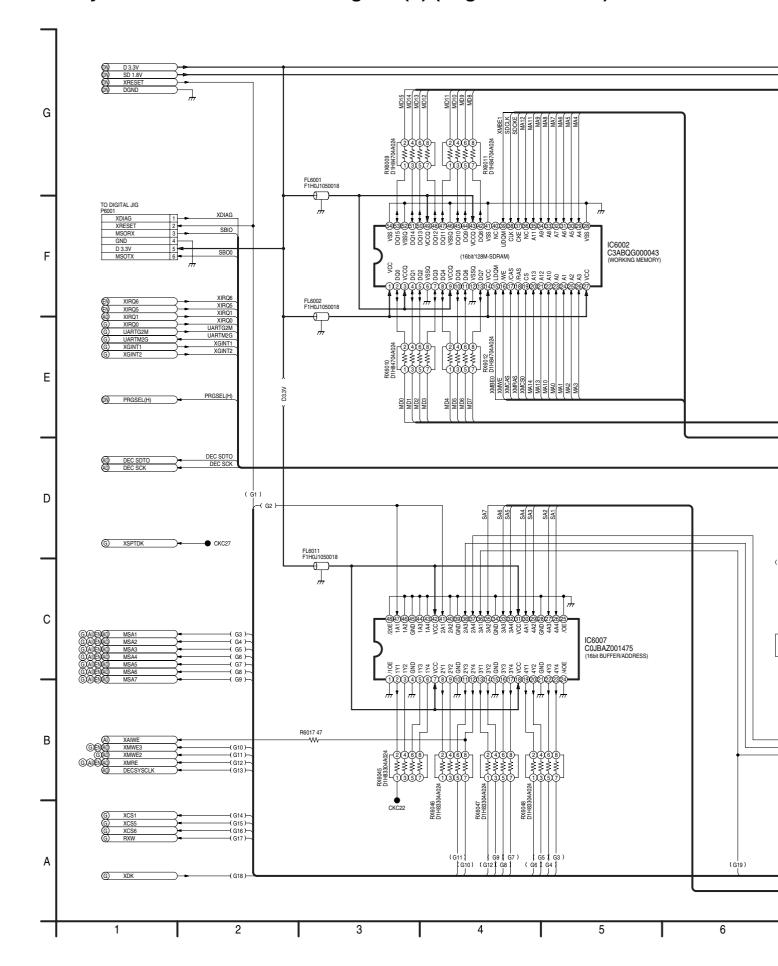




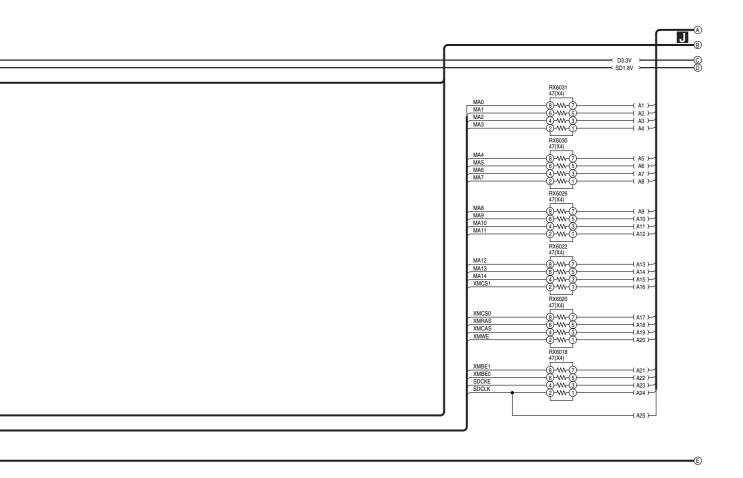


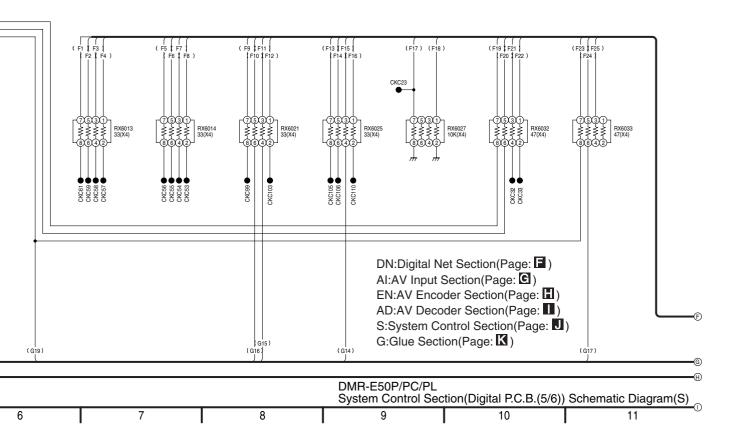


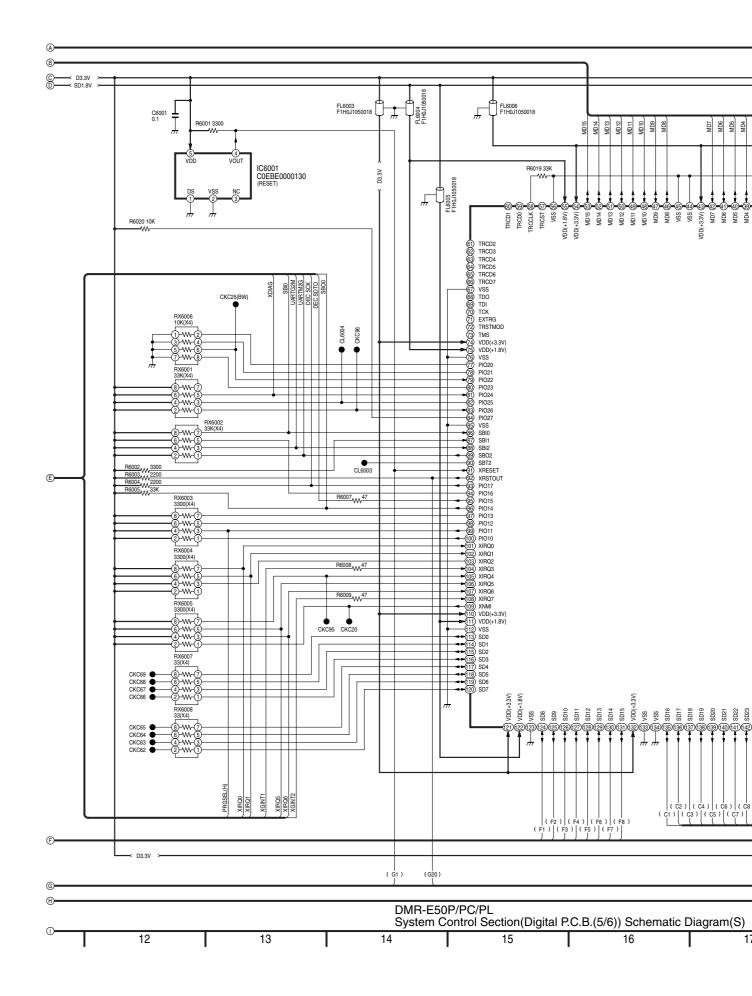
14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/6)

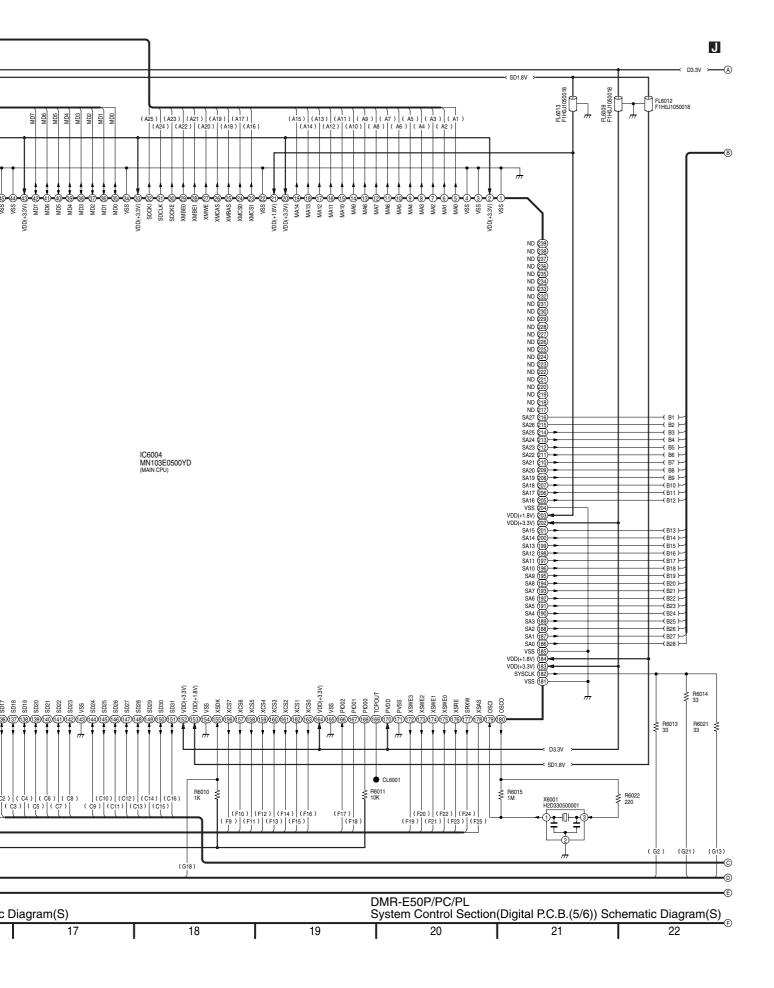


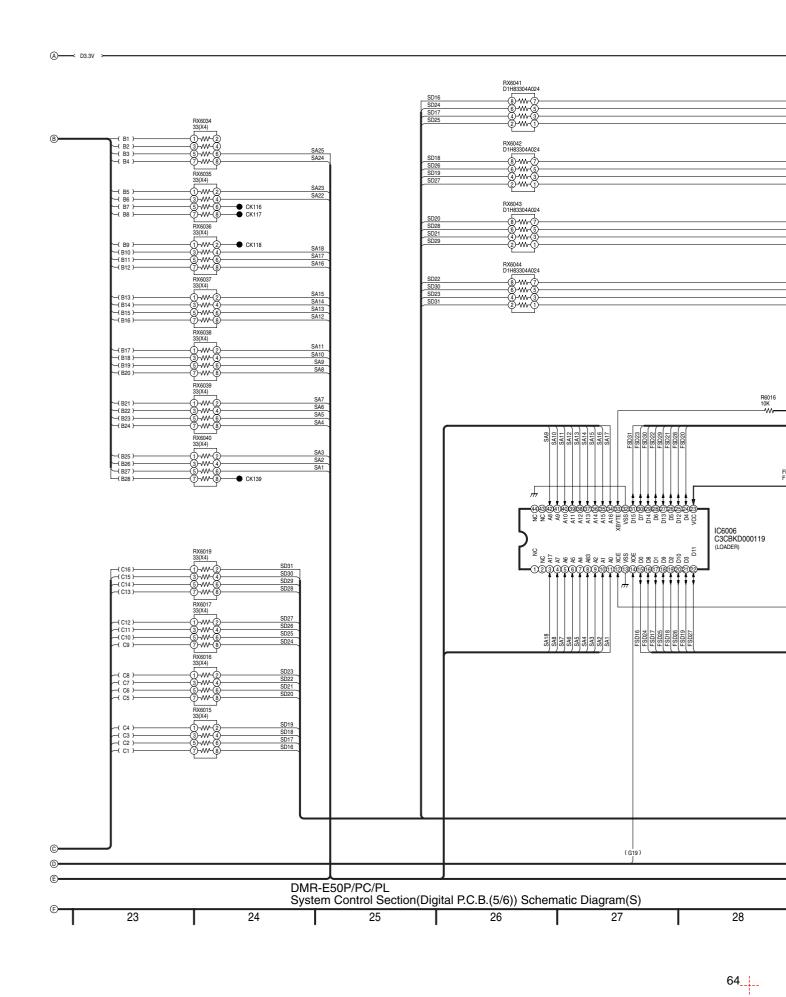




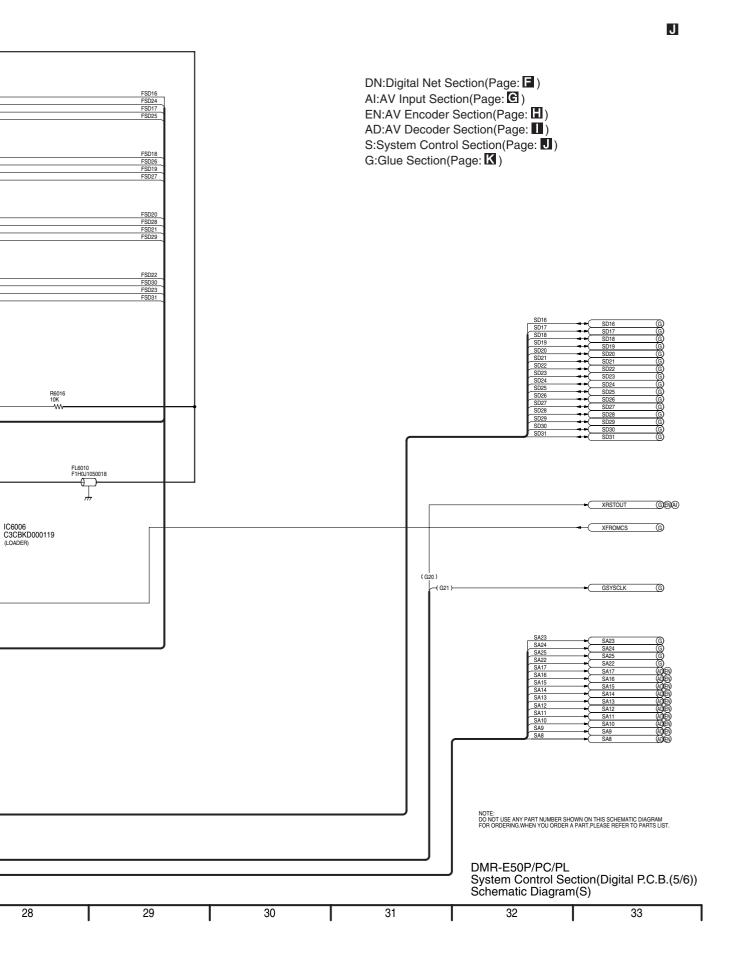




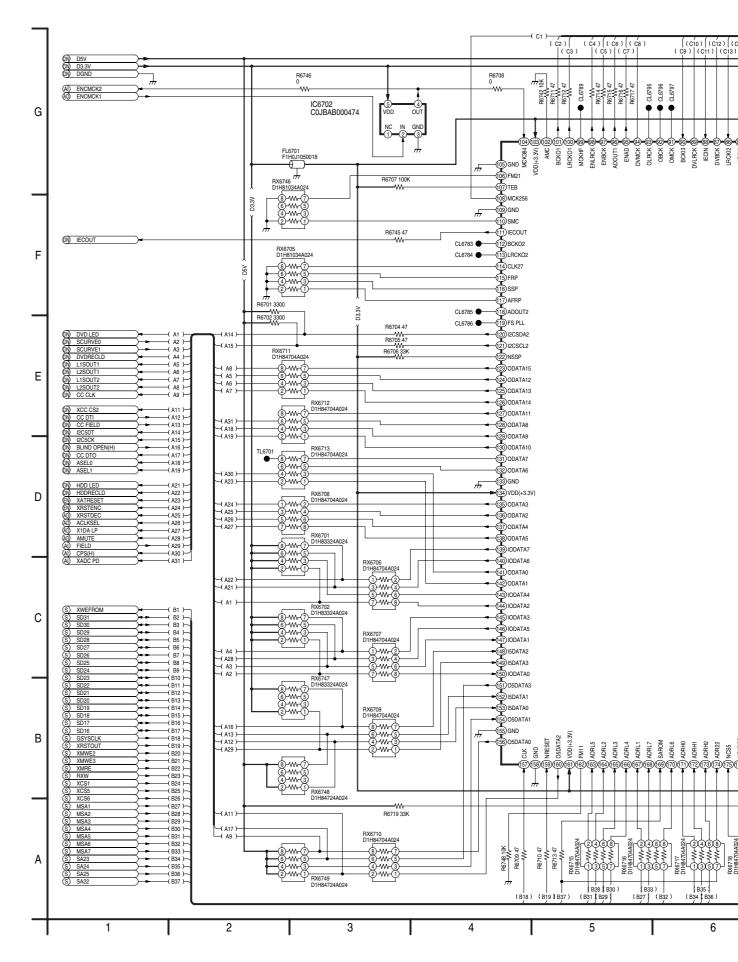


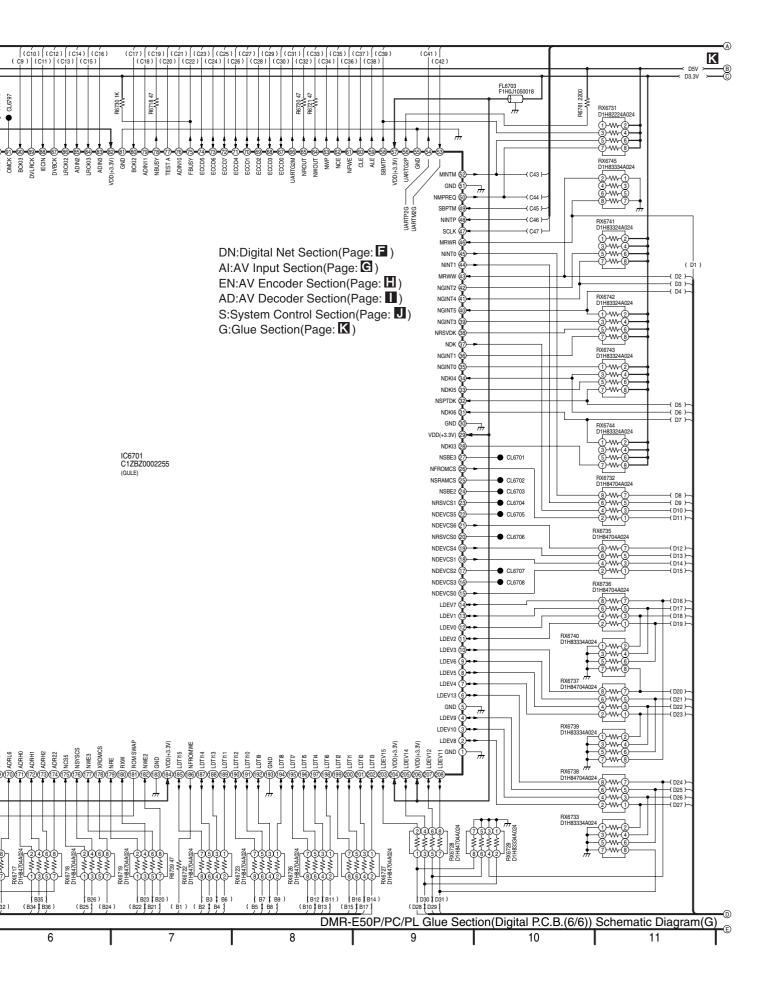




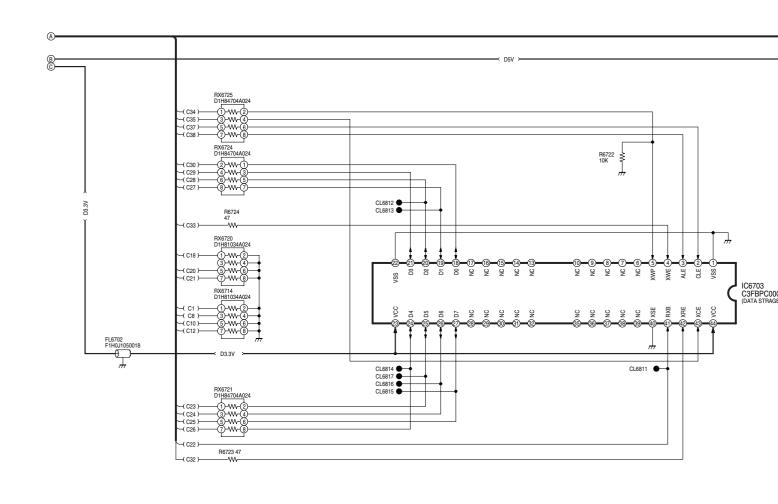


14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/6)



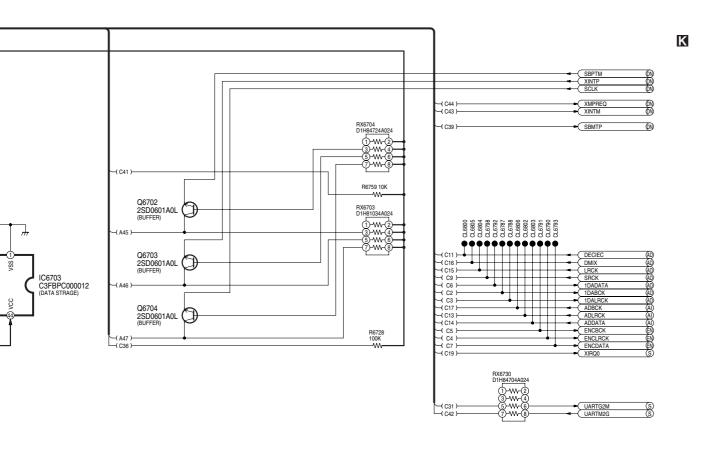






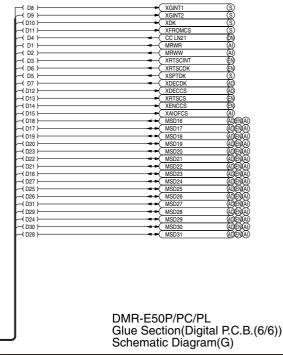






DN:Digital Net Section(Page:)
Al:AV Input Section(Page:)
EN:AV Encoder Section(Page:)
AD:AV Decoder Section(Page:)
S:System Control Section(Page:)
G:Glue Section(Page:)

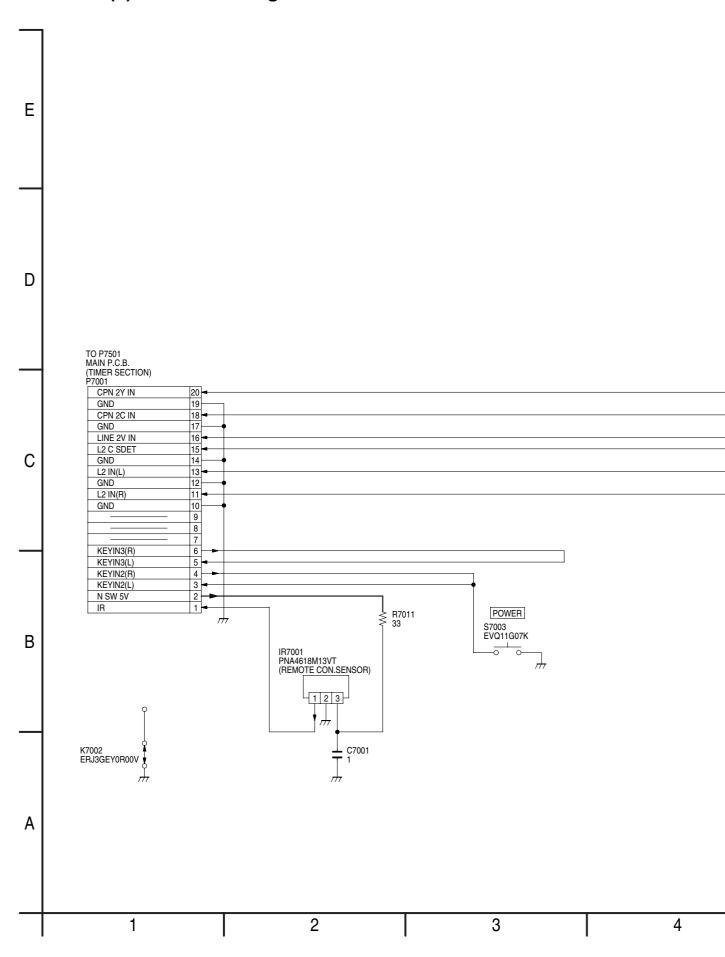
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.



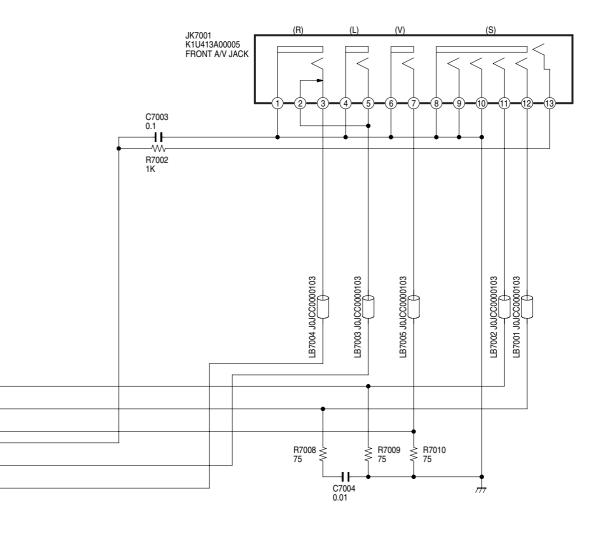
ram(G)

18 19 20 21 22

14.14. Front (L) Schematic Diagram





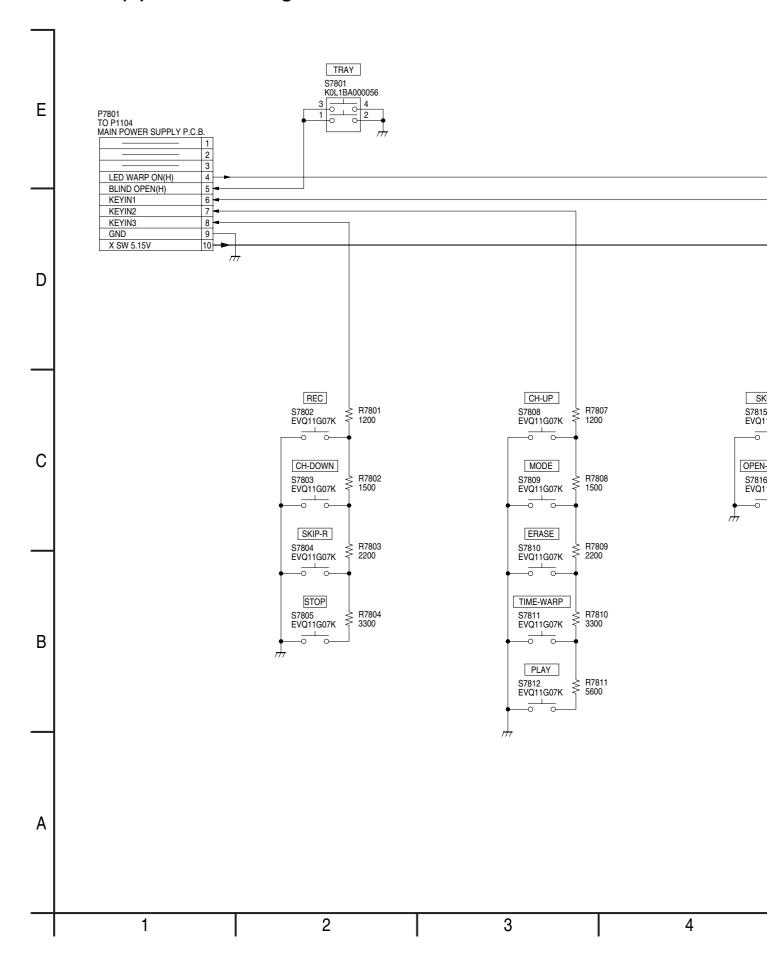


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

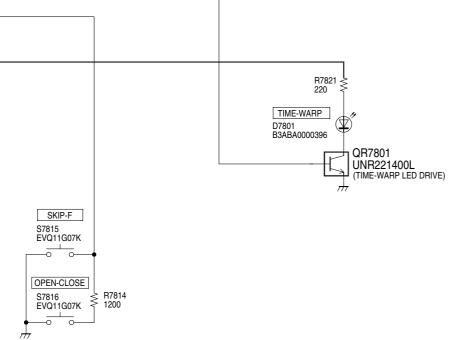
DMR-E50P/PC/PL Front (L) Schematic Diagram

4 5 6 7

14.15. Front (R) Schematic Diagram



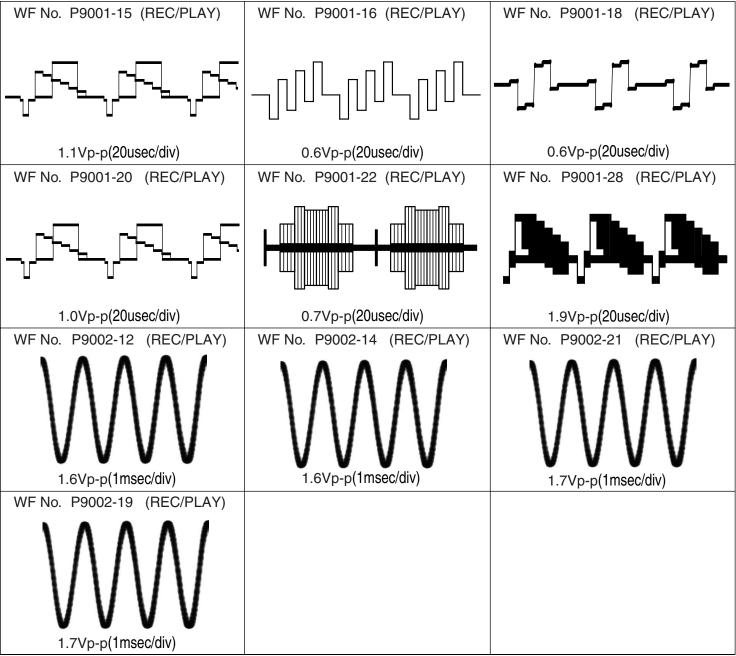


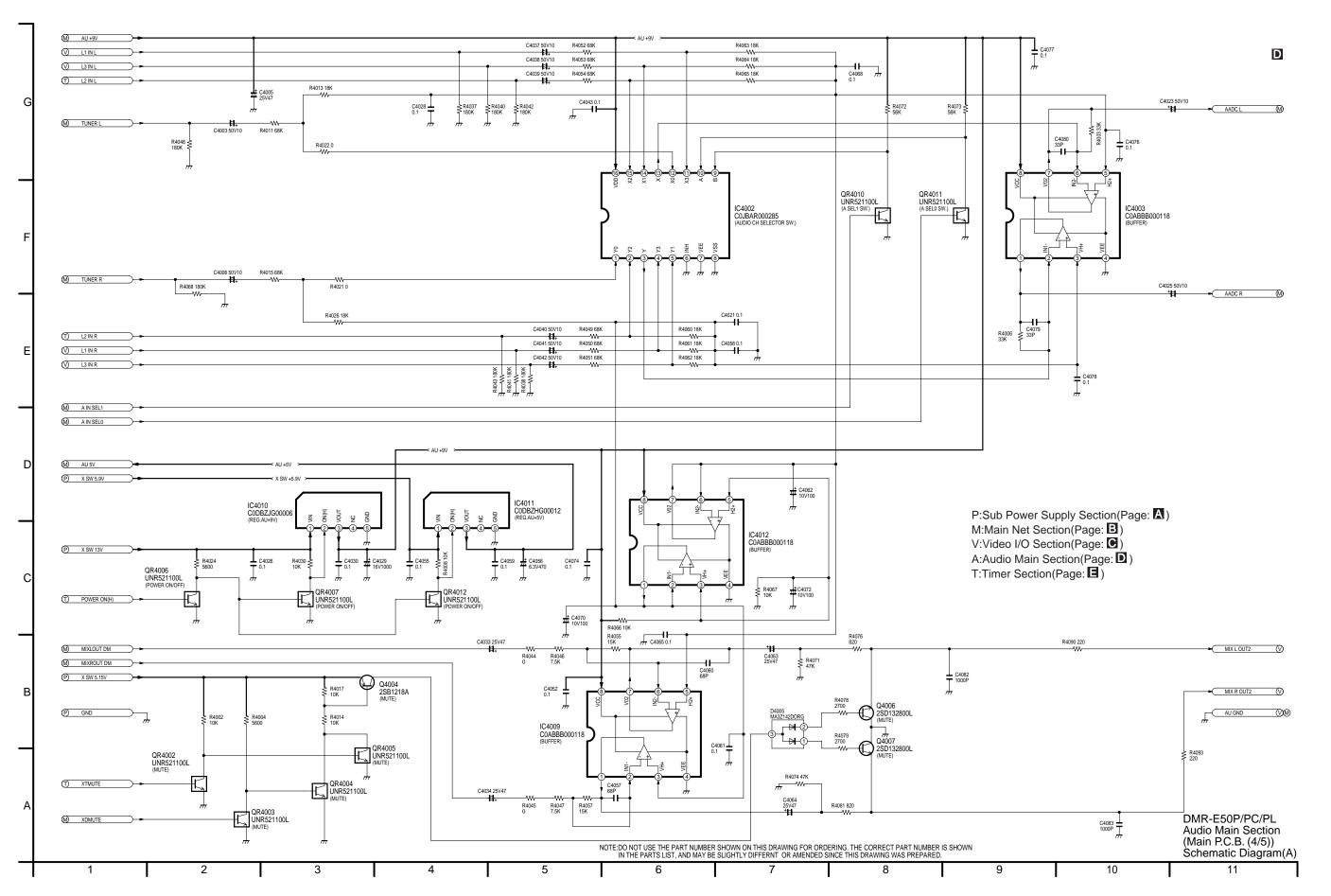


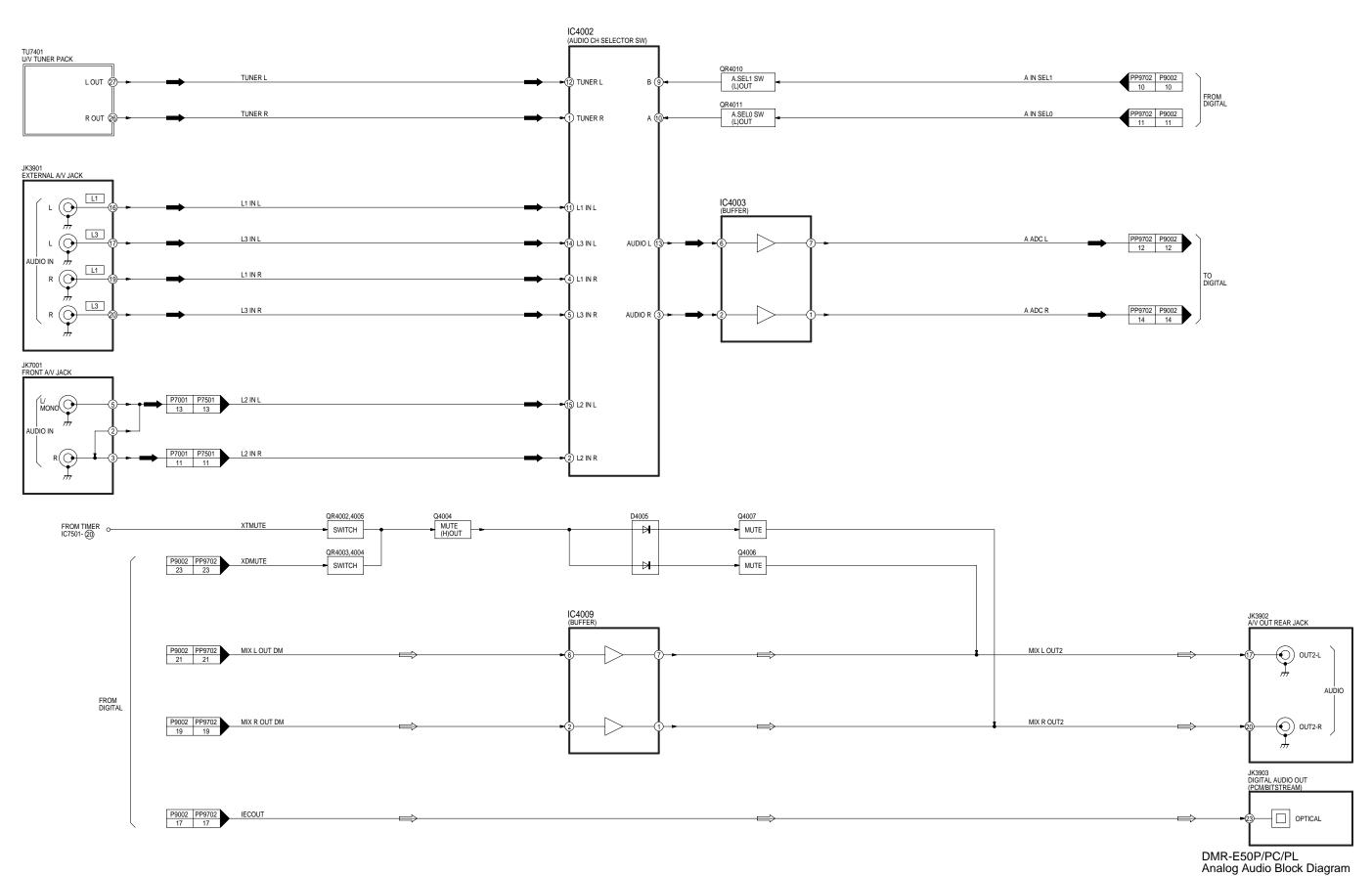
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

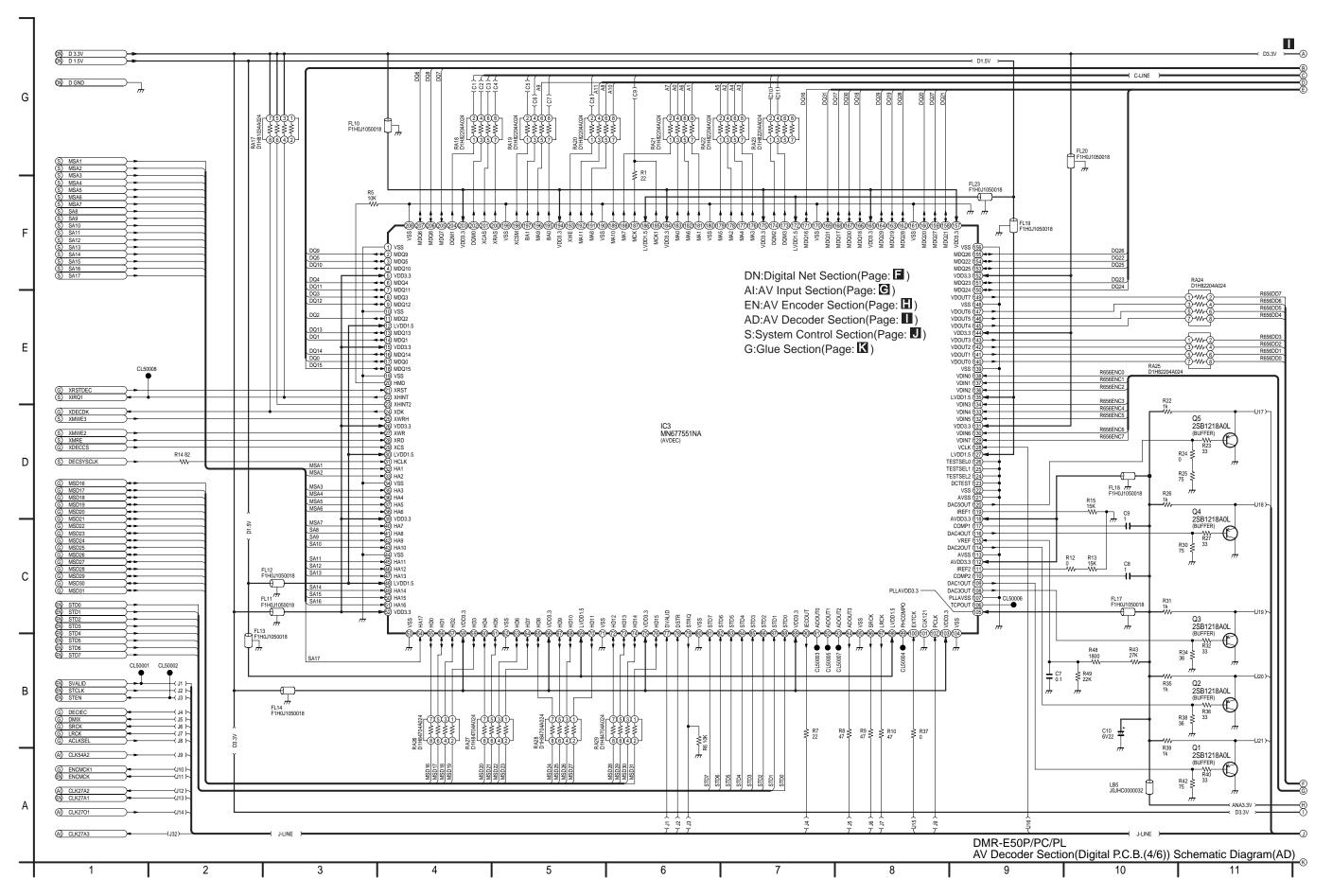
DMR-E50P/PC/PL	
DIVIN-ESUF/FU/FL	
Front (R) Schematic Diagram	h

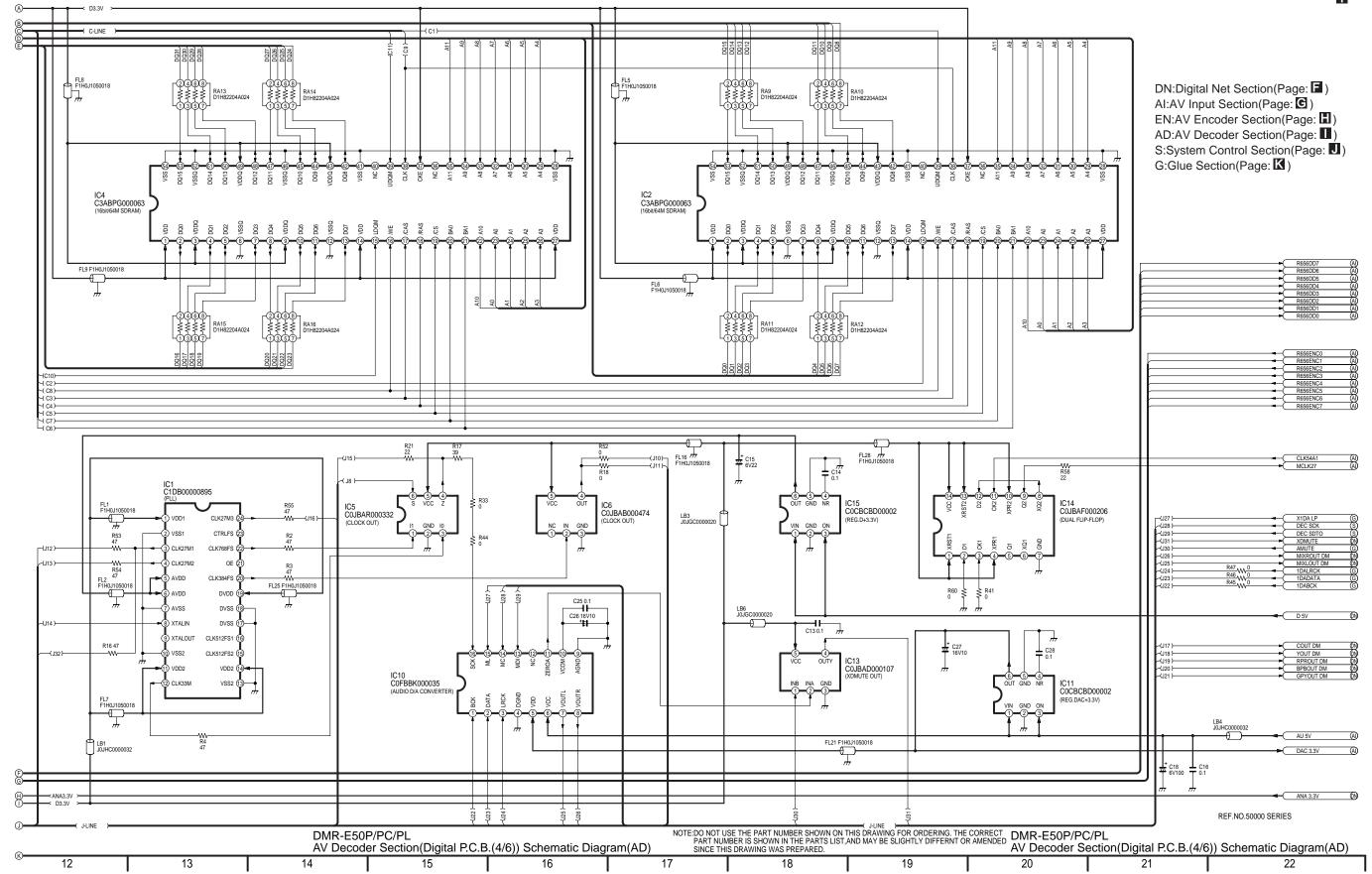
5	6	7

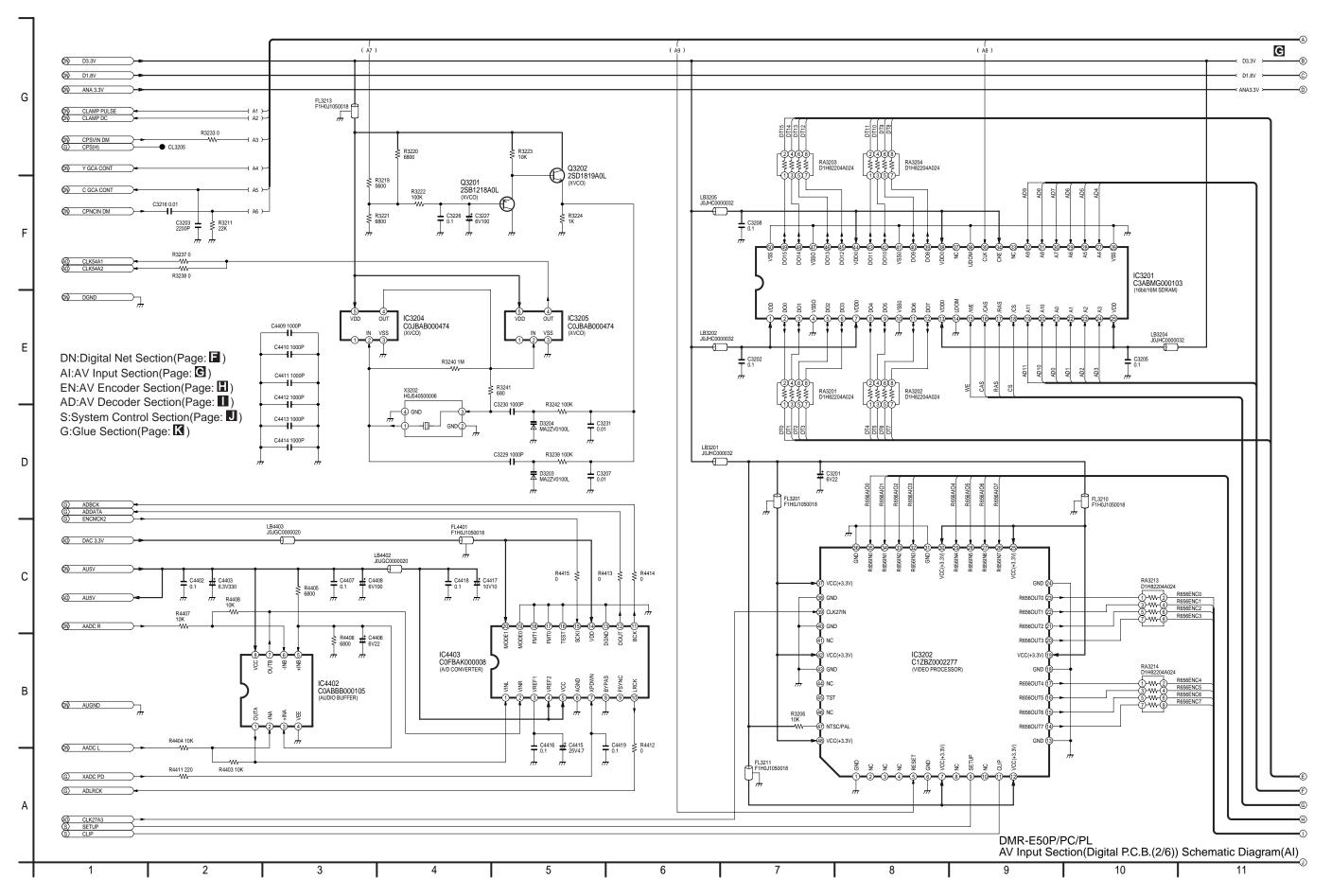


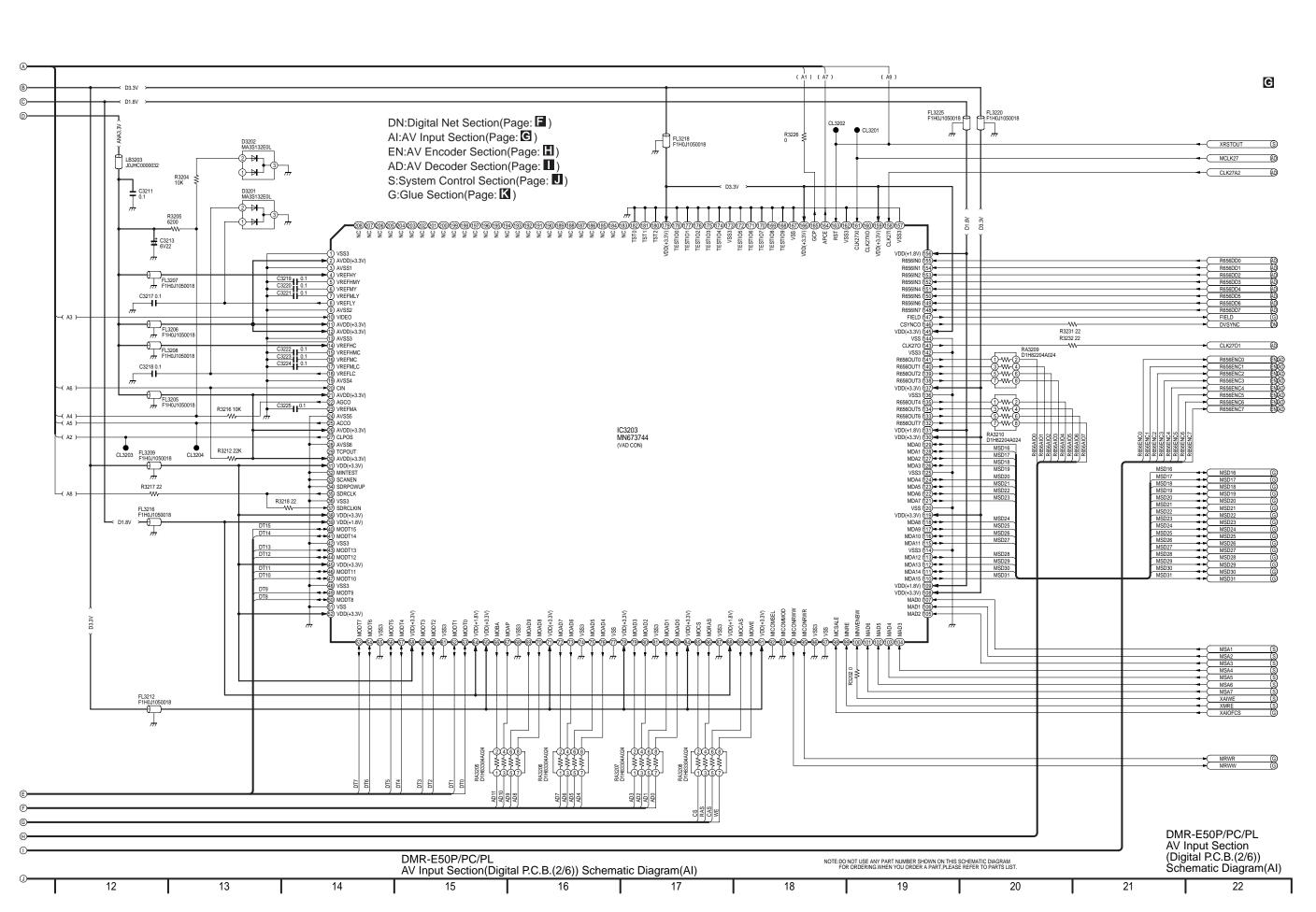


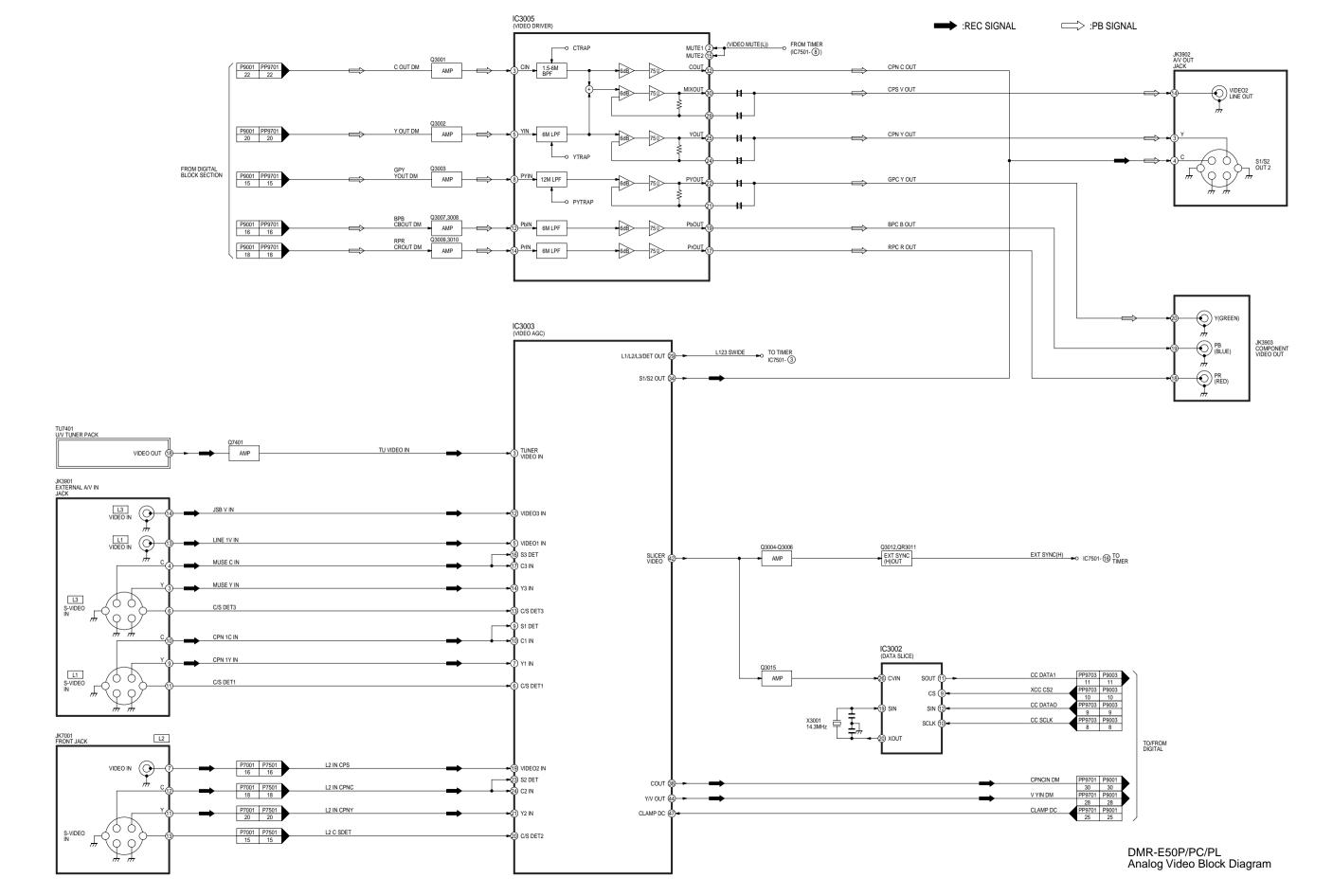












IC Pin Terminal Chart (TC 1 - TC 6)

TC		IC3203 / VAD	CON	SICNAL NAME	IC3202 / V-	PROCESSOR	
	10	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name	
ı		R656OUT0	141	R656ENC0	35	R656IN0	
		R656OUT1	140	R656ENC1	34	R656IN1	
		R656OUT2	139	R656ENC2	33	R656IN2	
	4	R656OUT3	138	R656ENC3	32	R656IN3	
	'	R656OUT4	135	R656ENC4	29	R656IN4	
		R656OUT5	134	R656ENC5	28	R656IN5	
		R656OUT6	133	R656ENC6	27	R656IN6	
		R656OUT7	132	R656ENC7	26	R656IN7	

TC	IC3402 / AV E	NC	SIGNAL NAME	IC3406 / RTSC	
110	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name
	CDO0	63	CDO0	16	EC1DT0
	CDO1	64	CDO1	17	EC1DT1
	CDO2	65	CDO2	18	EC1DT2
2	CDO3	67	CDO3	19	EC1DT3
-	CDO4	68	CDO4	20	EC1DT4
	CDO5	69	CDO5	21	EC1DT5
	CDO6	72	CDO6	22	EC1DT6
	CDO7	73	CDO7	23	EC1DT7

			•	7	
Ιтс	IC3406 / RTSC	;	SIGNAL NAME	P3401 (DVD RAM)	
10	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name
	S1DB0	122	RAMD0	24	DD0
	S1DB1	124	RAMD1	26	DD1
	S1DB2	127	RAMD2	28	DD2
	S1DB3	129	RAMD3	30	DD3
	S1DB4	135	RAMD4	32	DD4
	S1DB5	137	RAMD5	34	DD5
	S1DB6	140	RAMD6	36	DD6
3	S1DB7	142	RAMD7	38	DD7
3	S1DB8	141	RAMD8	37	DD8
	S1DB9	139	RAMD9	35	DD9
	S1DB10	136	RAMD10	33	DD10
	S1DB11	134	RAMD11	31	DD11
	S1DB12	128	RAMD12	29	DD12
	S1DB13	126	RAMD13	27	DD13
	S1DB14	123	RAMD14	25	DD14
	S1DB15	121	RAMD15	23	DD15

	S1DB15	121	RAMD15	23	15טט
				_	
lтс	IC3203/VAD C		SIGNAL NAME	IC3201/SDRAM	
L	Port Name	Pin No		Pin No	Port Name
	M0DT0	63	DT0	2	DO0
	M0DT1	62	DT1	3	DO1
	M0DT2	60	DT2	5	DO2
	M0DT3	59	DT3	6	DO3
	M0DT4	57	DT4	8	DO4
	M0DT5	56	DT5	9	DO5
	M0DT6	54	DT6	11	DO6
	M0DT7	53	DT7	12	DO7
	M0DT8	50	DT8	39	DO8
	M0DT9	49	DT9	40	DO9
	M0DT10	47	DT10	42	DO10
	M0DT11	46	DT11	43	DO11
	M0DT12	44	DT12	45	DO12
4	M0DT13	43	DT13	46	DO13
4	M0DT14	41	DT14	48	DO14
	M0DT15	40	DT15	49	DO15
	M0AD0	83	AD0	21	A0
	M0AD1	82	AD1	22	A1
	M0AD2	80	AD2	23	A2
	M0AD3	79	AD3	24	A3
	M0AD4	76	AD4	27	A4
	M0AD5	75	AD5	28	A5
	M0AD6	73	AD6	29	A6
	M0AD7	72	AD7	30	A7
	M0AD8	70	AD8	31	A8
	M0AD9	69	AD9	32	A9
	M0AP	67	AD10	20	A10
	M0BA	66	AD11	19	A11

				1	
TC	IC3402/AV EN		SIGNAL NAME		M(32bit/64M)
	Port Name	Pin No		Pin No	Port Name
	MDQ0	124	MDQA0	2	DQ0
	MDQ1 MDQ2	125 127	MDQA1 MDQA2	4 5	DQ1 DQ2
				ວ 7	
	MDQ3 MDQ4	128 130	MDQA3 MDQA4	<i>7</i> 8	DQ3 DQ4
	MDQ4 MDQ5	130	MDQA4 MDQA5	o 10	DQ4 DQ5
	MDQ5	133	MDQA5	11	DQ5 DQ6
	MDQ7	134	MDQA6 MDQA7	13	DQ7
	MDQ8	137	MDQA7	74	DQ7
	MDQ9	138	MDQA9	76	DQ9
	MDQ10	140	MDQA10	77 77	DQ10
	MDQ11	141	MDQA11	79	DQ10 DQ11
	MDQ12	143	MDQA12	80	DQ12
	MDQ13	144	MDQA13	82	DQ13
	MDQ14	146	MDQA14	83	DQ14
_	MDQ15	147	MDQA15	85	DQ15
5	MDQ16	150	MDQA16	31	DQ16
	MDQ17	151	MDQA17	33	DQ17
	MDQ18	153	MDQA18	34	DQ18
	MDQ19	154	MDQA19	36	DQ19
	MDQ20	158	MDQA20	37	DQ20
	MDQ21	159	MDQA21	39	DQ21
	MDQ22	161	MDQA22	40	DQ22
	MDQ23	162	MDQA23	42	DQ23
	MDQ24	165	MDQA24	45	DQ24
	MDQ25	166	MDQA25	47	DQ25
	MDQ26	168	MDQA26	48	DQ26
	MDQ27	169	MDQA27	50	DQ27
	MDQ28	186	MDQA28	51	DQ28
	MDQ29	187	MDQA29	53	DQ29
	MDQ30	190	MDQA30	54	DQ30
	MDQ31	191	MDQA31	56	DQ31
	MA0	193	MAA0	25	A0
	MA1	194	MAA1	26	A1
	MA2	196	MAA2	27	A2
	MA3 MA4	197 200	MAA3 MAA4	60 61	A3 A4
	MA5	200 201	MAA5	62	A4 A5
	MA6	201	MAA6	63	A6
	MA7	203	MAA7	64	A0 A7
	MA8	204	MAA8	65	A7 A8
	MA9	206	MAA9	66	A0 A9
	MA10	207	MAA10	24	A9 A10
	1417 (110		1017 (7 (1 (<u> </u>	,

то	IC3406 / RTSC		CIONAL NAME	IC3403,IC3404/SDRAM	
TC	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name
	MDQ0	144	MADQB0	2	DQ0
	MDQ1	146	MADQB1	4	DQ1
	MDQ2	148	MADQB2	5	DQ2
	MDQ3	151	MADQB3	7	DQ3
	MDQ4	155	MADQB4	8	DQ4
	MDQ5	157	MADQB5	10	DQ5
	MDQ6	159	MADQB6	11	DQ6
6	MDQ7	161	MADQB7	13	DQ7
0	MDQ8	162	MADQB8	42	DQ8
	MDQ9	160	MADQB9	44	DQ9
	MDQ10	158	MADQB10	45	DQ10
	MDQ11	156	MADQB11	47	DQ11
	MDQ12	154	MADQB12	48	DQ12
	MDQ13	150	MADQB13	50	DQ13
	MDQ14	147	MADQB14	51	DQ14
	MDQ15	145	MADQB15	53	DQ15

IC Pin Terminal Chart (TC 7, TC 8, TC 9, TC 15, TC 16, TC 21, T TC IC3202/V-PROCESSOR

Pin No

IC50003/AV DEC

Port Name

	Port Name	PIII INO		PIII INO	Port Name
	R656OUT0	23	R656ENC0	138	VDIN0
	R656OUT1	22	R656ENC1	137	VDIN1
	R656OUT2	21	R656ENC2	136	VDIN2
7	R656OUT3	20	R656ENC3	134	VDIN3
/	R656OUT4	17	R656ENC4	133	VDIN4
	R656OUT5	16	R656ENC5	132	VDIN5
	R656OUT6	15	R656ENC6	130	VDIN6
	R656OUT7	14	R656ENC7	129	VDIN7
	I.		<u> </u>	<u> </u>	
	IC50003/AV D	EC		IC50002/SE	DRAM
TC	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name
	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
8	MDQ13	13	DQ13	50	DQ13
8	MDQ14	16		51	DQ14
	MDQ15	18	DQ15	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
1	MA7	188		32	A7
1	MA8	191	A8	33	A8
1	MA9	196	_	34	A9
1	MA10	189	A10	22	A10
1	MA11	192		35	A11
		, ,		<u> </u>	

Port Name

Pin No

	MA9	196		34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11
	•			<u>'</u>	•
ТС	IC50003/AV D		SIGNAL NAME	IC50004/SE	
10	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name
	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
9	MDQ29	164	DQ29	50	DQ13
9	MDQ30	167	DQ30	51	DQ14
	MDQ31	169	DQ31	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11
				,	

TC	TC 22, TC 23)						
TC	IC6004 / MAIN		CICNIAL NAME	IC6002 / W-			
10	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name		
	MD0	35	MD0	2	DQ0		
	MD1	36	MD1	4	DQ1		
	MD2	37	MD2	5	DQ2		
	MD3	38	MD3	7	DQ3		
	MD4	39	MD4	8	DQ4		
	MD5	40	MD5	10	DQ5		
	MD6	41	MD6	11	DQ6		
	MD7	42	MD7	13	DQ7		
	MD8	46	MD8	42	DQ8		
	MD9	47	MD9	44	DQ9		
	MD10	48	MD10	45	DQ10		
	MD11	49	MD11	47	DQ11		
	MD12	50	MD12	48	DQ12		
	MD13	51	MD13	50	DQ13		
	MD14	52	MD14	51	DQ14		
15	MD15	53	MD15	53	DQ15		
	MA0	5	MA0	23	A0		
	MA1	6	MA1	24	A1		
	MA2	7	MA2	25	A2		
	MA3	8	MA3	26	A3		
	MA4	9	MA4	29	A4		
	MA5	10	MA5	30	A5		
	MA6	11	MA6	31	A6		
	MA7	12	MA7	32	A7		
	MA8	13	MA8	33	A8		
	MA9	14	MA9	34	A9		
	MA10	15	MA10	22	A10		
	MA11	16	MA11	35	A11		
	MA12	17	MA12	36	NC		
	MA13	18	MA13	21	A12		
	ΜΔ14	19		20	Δ13		

	1017 (1 -7	10	IVIZET	20	7110
				-	
7	IC3406 / RTSC	;	SIGNAL NAME	IC50003 / A	V DEC
10	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name
	STD0	40	STD0	88	STD0
	STD1	39	STD1	87	STD1
	STD2	38	STD2	86	STD2
16	STD3	37	STD3	85	STD3
10	STD4	36	STD4	84	STD4
	STD5	35	STD5	83	STD5
	STD6	34	STD6	82	STD6
	STD7	33	STD7	81	STD7

		-		_						
тс	IC6701 / GLUE	=	SIGNAL NAME	IC6703 / DATA STRAGE						
	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name					
	ECCD0	67	DE0	18	D0					
	ECCD1	70	DE1	19	D1					
	ECCD2	69	DE2	20	D2					
21	ECCD3	68	DE3	21	D3					
2	ECCD4	71	DE4	24	D4					
	ECCD5	74	DE5	25	D5					
	ECCD6	73	DE6	26	D6					
	ECCD7	72	DE7	27	D7					

				-1						
TC	IC50003 / AV I	DEC	SICNAL NAME	IC3203 / VAD CON						
10	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name					
	VDOUT0	140	R656DD0	155	R656IN0					
	VDOUT1	141	R656DD1	154	R656IN1					
	VDOUT2	142	R656DD2	153	R656IN2					
22	VDOUT3	143	R656DD3	152	R656IN3					
22	VDOUT4	145	R656DD4	151	R656IN4					
	VDOUT5	146	R656DD5	150	R656IN5					
	VDOUT6	147	R656DD6	149	R656IN6					
	VDOUT7	149	R656DD7	148	R656IN7					
				-						
TC	IC3202/V-PRC	CESSOR	SIGNAL NAME	IC3402/AV	ENC					
lic	Port Name	Pin No	SIGNAL NAME	Pin No	Port Name					

R656ENC0

R656ENC1

R656ENC2

R656ENC3

R656ENC4

R656ENC5

R656ENC6

R656ENC7

22

21

20

17

16

15

R656OUT0

R656OUT1

R656OUT2

R656OUT3

R656OUT4

R656OUT5

R656OUT6

R656OUT7

17

18

20

21 23

24

25

26

VIN0

VIN1

VIN2

VIN3

VIN4

VIN5

VIN6

VIN7

SA0 - SA25 ADDRESS BUS LINE (TC20-1, TC12-3, TC17-1, TC18, TC19-1, TC24)

TC	2	0-1	1:	2-3	1	7-1		18	19	9-1	24		
CICNIAL NAME	IC6004/I	MAIN CPU	IC3406	/ RTSC	IC670	1/GLUE	IC6007 /	BUFFER	IC6006 /	LOADER	OADER IC50003		
SIGNAL NAME	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Nam	
SA0	186	SA0	-	-	-	-	-	-	-	-	-	-	
SA1	187	SA1	-	-	-	-	26	4A4	11	A0	-	-	
SA2	188	SA2	-	-	-	-	27	4A3	10	A1	-	-	
SA3	189	SA3	-	-	-	-	29	4A2	9	A2	-	-	
SA4	190	SA4	-	-	-	-	30	4A1	8	A3	-	-	
SA5	191	SA5	-	-	-	-	32	3A4	7	A4	-	-	
SA6	192	SA6	-	-	-	-	33	3A3	6	A5	-	-	
SA7	193	SA7	-	-	-	-	35	3A2	5	A6	-	-	
SA8	194	SA8	63	HMADR8	-	-	-	-	4	A7	41	HA8	
SA9	195	SA9	71	HMADR9	-	-	-	_	42	A8	42	HA9	
SA10	196	SA10	72	HMADR10	-	-	-	_	41	A9	43	HA10	
SA11	197	SA11	73	HMADR11	-	-	-	_	40	A10	45	HA11	
SA12	198	SA12	74	HMADR12	-	-	-	-	39	A11	46	HA12	
SA13	199	SA13	76	HMADR13	-	-	-	-	38	A12	47	HA13	
SA14	200	SA14	77	HMADR14	-	-	-	_	37	A13	49	HA14	
SA15	201	SA15	78	HMADR15	-	-	-	-	36	A14	50	HA15	
SA16	205	SA16	79	HMADR16	-	-	-	_	35	A15	51	HA16	
SA17	206	SA17	80	HMADR17	-	-	-	-	34	A16	54	HA17	
SA18	207	SA18	-	-	-	-	-	-	3	A17	-	-	
SA19	208	SA19	-	_	-	-	-	_	-	-	-	-	
SA20	209	SA20	-	_	-	-	-	_	-	-	-	-	
SA21	210	SA21	-	-	-	-	-	-	-	-	-	-	
SA22	211	SA22	-	-	174	ADR22	-	_	-	-	-	-	
SA23	212	SA23	-	-	171	ADRH0	-	_	-	-	-	-	
SA24	213	SA24	-	-	172	ADRH1	-	_	-	-	-	-	
SA25	214	SA25	-	-	173	ADRH2	-	-	-	-	-	-	

MSD16 - MSD31 DATA BUS LINE (TC10-1, TC13-1, TC14-1, TC11-1, TC12-1)

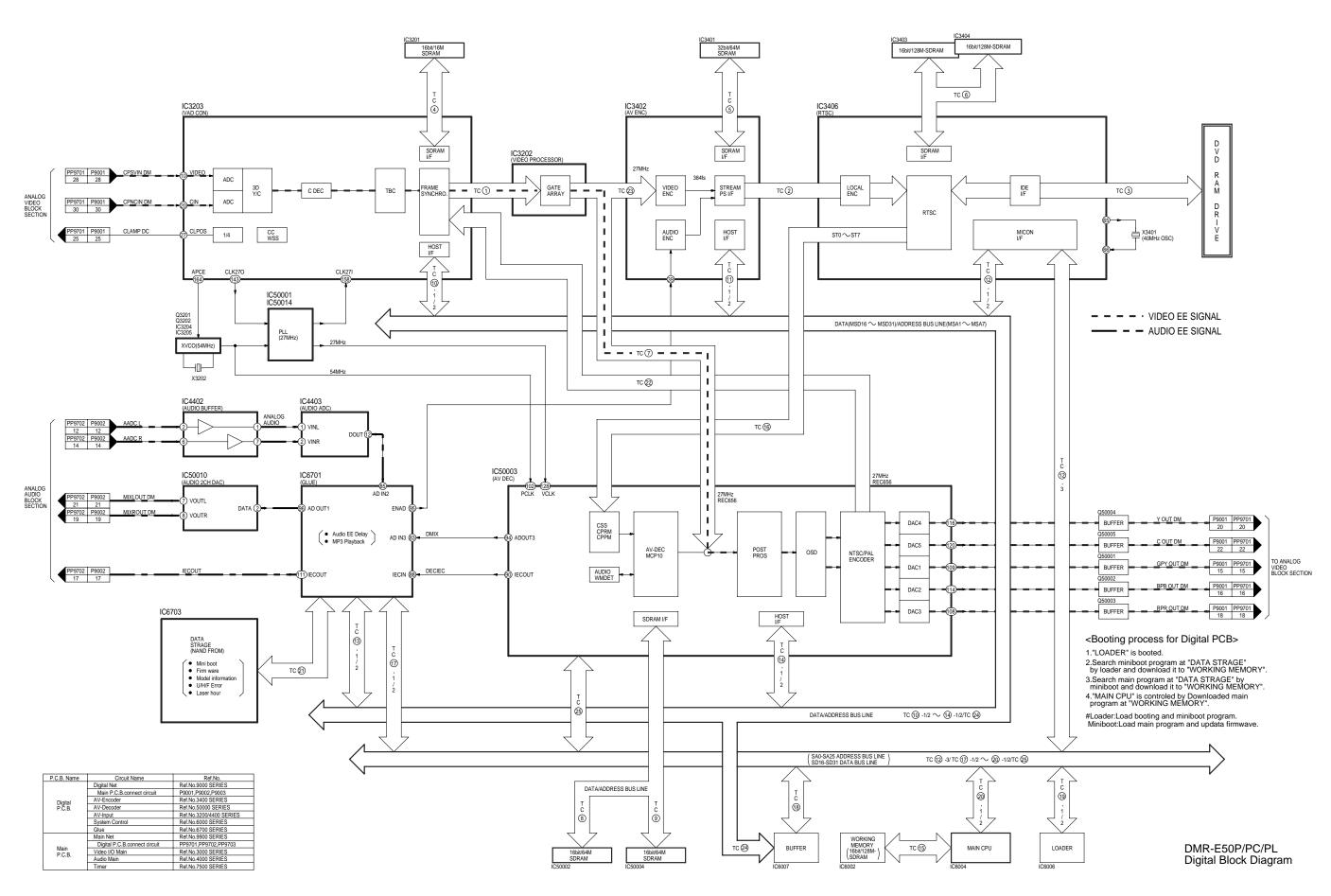
TC		D-1	`	3-1		4-1		1-1	12	2-1	
SIGNAL NAME	IC3203/\	AD CON	IC670	1/GLUE	IC50003	B/AVDEC	IC340	2/ENC	IC340	6/RTSC	
SIGNAL NAME	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	
MSD16	129	MDA0	12	LDEV0	55	HD0	81	HD0	105	HMDT16	
MSD17	128	MDA1	13	LDEV1	56	HD1	82	HD1	104	HMDT17	
MSD18	127	MDA2	11	LDEV2	57	HD2	85	HD2	102	HMDT18	
MSD19	126	MDA3	10	LDEV3	59	HD3	86	HD3	101	HMDT19	
MSD20	124 MDA4		7	LDEV4	60	HD4	88	HD4	100	HMDT20	
MSD21	123	MDA5	8	LDEV5	61	HD5	89	HD5	98	HMDT21	
MSD22	122	MDA6	9	LDEV6	63	HD6	90 92	HD6	97	HMDT22	
MSD23	121	MDA7	14	LDEV7	64	HD7		HD7	96	HMDT23	
MSD24	118	MDA8	2	LDEV8	65	HD8	93	HD8	94	HMDT24	
MSD25	117	MDA9	4	LDEV9	67	HD9	94	HD9	93	HMDT25	
MSD26	116	MDA10	3	LDEV10	68	HD10	97	HD10	92	HMDT26	
MSD27	115	MDA11	208	LDEV11	70	HD11	98	HD11	87	HMDT27	
MSD28	113	MDA12	207	LDEV12	72	HD12	99	HD12	86	HMDT28	
MSD29	112	MDA13	6	LDEV13	73	HD13	101	HD13	85	HMDT29	
MSD30	111	MDA14	MDA14 205		74	HD14	102	HD14	83	HMDT30	
MSD31	110	MDA15	203	LDEV15	76	HD15	103	HD15	82	HMDT31	

MSA1 - MSA7 ADDRESS BUS LINE (TC23, TC10-2, TC13-2, TC14-2, TC11-2, 12-2)

TC	2	23	10	0-2	10	3-2	14	4-2	1	1-2	12-2			
SIGNAL NAME	IC6007/16	oit BUFFER	IC3203/\	AD CON	IC670	1/GLUE	IC50003	3/AVDEC	IC340	2/ENC	IC3406/RTSC			
SIGNAL NAME	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name		
MSA1	23	4Y4	107	MAD0	167	ADRL1	32	HA1	106	HA0	55	HMADR1		
MSA2	22	22 4Y3		MAD1	164	ADRL2	33	HA2	107	HA1	56	HMADR2		
MSA3	20	4Y2	105	MAD2	165	ADRL3	35	HA3	108	HA2	57	HMADR3		
MSA4	19	4Y1	104	MAD3	166	ADRL4	36	HA4	109	HA3	58	HMADR4		
MSA5	17	3Y4	103	MAD4	163	ADRL5	37	HA5	105	HA4	60	HMADR5		
MSA6	16	3Y3	102	MAD5	170	ADRL6	38	HA6	-	-	61	HMADR6		
MSA7	14 3Y2		101	MAD6	168	ADRL7	40	HA7	-	-	62	HMADR7		

SD16 - SD31 DATA BUS LINE (TC20-2, TC17-2, TC19-2)

TC	2	0-2	1	7-2	19-2				
SIGNAL NAME	IC6004 /	MAIN CPU	IC6701	/ GLUE	IC6006 /	LOADER			
SIGNAL NAME	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name			
SD16	135	SD16	201	LDTI0	15	D0			
SD17	136	SD17	200	LDTI1	17	D1			
SD18	137	SD18	199	LDTI2	19	D2			
SD19	138	SD19	202	LDTI3	21	D3			
SD20	139	SD20	197	LDTI4	24	D4			
SD21	140	SD21	196	LDTI5	26	D5			
SD22	141	SD22	198	LDTI6	28	D6			
SD23	142	SD23	195	LDTI7	30	D7			
SD24	144	SD24	194	LDTI8	16	D8			
SD25	145	SD25	192	LDTI9	18	D9			
SD26	146	SD26	191	LDTI10	20	D10			
SD27	147	SD27	189	LDTI11	22	D11			
SD28	148	SD28	190	LDTI12	25	D12			
SD29	149	SD29	188	LDTI13	27	D13			
SD30	150	SD30	187	LDTI14	29	D14			
SD31	151	SD31	185	LDTI15	31	D15			



	DIGITAL P.C.B. tegrated Circuit CKB20 F-2 F CKC129 A-4 F CL6785 E-5 F LB9013 F-3 C FL50016 D-2 F R3221 D-4 F R6718 D-5 F RA3401 D-4 F RX6036 B-6 F																											
Integrated (IC3201	Circuit B-5	F	CKB20 CKB21	F-2 F-2	F	CKC129 CKC131	A-4 D-2	F	CL6785 CL6786	E-5 E-5	F	LB9013 LB9014	F-3 F-3	C	FL50016 FL50017	D-2 B-2	F	R3221 R3222	D-4 D-4	F R6718	D-5 E-6			D-4 D-4		RX6036 RX6037	B-6 B-7	F
IC3201	D-5	C	CKB21 CKB22	F-2	l '	CKC131	A-4		CL6787	E-4	F	LB9014 LB9015	F-3	C	FL50017	E-2	c	R3223	D-4	F R6720	E-4	<u> </u>		D-4 D-5		RX6038	B-7	'F
IC3203	E-3	C	CKB23	F-3	F	CKC133	A-6		CL6788	E-4	F	LB9016	F-4	-	FL50019	A-3	F	R3224	D-4	F R6721	E-4			D-5		RX6039	B-6	F I
IC3204	D-4	С	CKB26	F-3	F	CKC134	A-4		CL6789	E-4	F	LB9020	F-2		FL50020	A-3	F	R3226	D-2	C R6722	C-4			D-5		RX6040	B-6	F
IC3205	E-4	С	CKB27	F-3	F	CKC135	B-6	F	CL6790	E-4	F	LB9021	F-2	F	FL50021	F-2	F	R3232	D-3	C R6723	C-5	c	RA3406	D-5	F	RX6041	B-6	С
IC3401	C-5	F	CKB29	F-3	F	CKC136	A-3		CL6791	E-4	F	LB9038	F-2		FL50023	B-4	F	R3233	E-3	C R6724	C-4			C-4		RX6042	B-6	С
IC3402	E-3	F	CKB30	F-3	F	CKC137	A-3		CL6792	E-4	F	LB50001	E-3		FL50025	D-3	F	R3237	E-4	C R6728	F-4			C-4		RX6043	B-6	С
IC3403	E-7	С	CKC19	A-5	F	CKC138	A-3		CL6793	E-4	F	LB50003	D-2	_	FL50028	D-4	С	R3238	E-4	C R6730	E-4		1	C-5		RX6044	B-6	C
IC3404 IC3406	C-7 E-5	C	CKC20 CKC22	A-5 A-5	F	CKC139 CKD1	A-3 C-6		CL6795 CL6796	E-4 E-4	F	LB50004 LB50005	F-2 E-1	F	Capacitor	C 5	С	R3239 R3240	D-4 D-4	C R6739	E-6 E-4		1	C-5 C-5		RX6045 RX6046	E-4 F-4	C
IC4402	E-3	F	CKC22 CKC23	A-5 A-6	F	CKE1	F-6		CL6796 CL6797	E-5	F	LB50005 LB50006	F-3	F	C3201 C3203	C-5 F-4	C	R3240	D-4 D-4	C R6742	D-5		1	E-6		RX6046	F-4	č
IC4403	E-2	F	CKC25	A-5	F	CKE3	F-4		CL6798	C-1	_	Filter	. 0	<u> </u>	C3207	D-4	ľč	R3242	D-4	C R6746	E-4		1	E-6		RX6048	F-4	č
IC6001	C-7	F	CKC27	A-5	F	CKE4	F-7	F	CL6800	C-1	F	FL3201	D-5	С	C3211	E-2	С	R3401	E-4	F R6748	E-6	F	RA3415	D-6	С	RX6701	D-5	F
IC6002	C-6	С	CKC29	B-6	F	CKE5	F-6	F	CL6802	D-2	F	FL3205	E-3	С	C3213	E-2	С	R3403	E-3	F R6759	F-6	F	RA3416	D-6	С	RX6702	D-5	F
IC6004	C-6	F	CKC30	B-6	F	CKE6	E-7	F	CL6803	E-2	F	FL3206	E-3	С	C3216	E-3	С	R3406	F-3	F R6761	F-4	F	RA3419	E-6	C	RX6703	A-6	С
IC6006	B-5	С	CKC32	B-6	F	CKE7	E-6		CL6804	B-1	F	FL3207	E-2	С	C3217	E-2	С	R3407	E-6	F R9012	E-7	F	1.0.0.20	D-6		RX6704	B-6	C
IC6007	F-4	С	CKC33	B-6	F	CKE8	E-6		CL6805	C-1		FL3208	E-3	C	C3218	E-2	C	R3408	E-7	F R9015	F-3		1.0.0.2.	D-6		RX6705	D-5	F
IC6701 IC6702	E-5 D-4	F	CKC35 CKC36	A-5 B-5	F	CKE9 CKE10	E-6 E-6		CL6806 CL6811	E-2 E-5		FL3209 FL3210	D-3 C-5	C	C3219 C3220	E-2 E-2	C	R3409 R3410	D-7 E-6	F R5000			1 ' 1	D-6 D-5		RX6706 RX6707	E-5 D-5	F F
IC6702	B-4	C	CKC37	B-5	F	CKE10 CKE11	F-7		CL6811	F-4		FL3210	C-4	c	C3221	E-2	C	R3411	E-7	F R5000			1	D-5 D-6		RX6708	D-5 D-5	'F
IC9001	E-7	F	CKC38	A-5	F.	CKE16	F-4		CL6813	F-4		FL3212	D-3	c	C3222	E-2	ľċ	R3412	E-6	F R5000			1 1	F-5		RX6709	E-7	F I
IC50001	D-3	F	CKC39	B-5	F	CKE18	F-4		CL6814	F-4		FL3213	E-4	c	C3223	E-2	c	R3413	B-7	C R5000				F-5		RX6710	E-6	F
IC50002	D-2	С	CKC41	B-5	F	CKE19	F-4		CL6815	F-4		FL3216	D-3	С	C3224	E-2	С	R3414	B-7	C R5000		F		D-5		RX6711	E-5	F
IC50003	C-3	F	CKC42	B-5	F	CKE20	E-7		CL6816	E-4		FL3218	E-2	С	C3225	E-2	С	R3415	D-5	F R5000		F	1	F-3		RX6712	D-5	F
IC50004	C-3	С	CKC43	B-5	F	CKE21	F-6		CL6817	E-4		FL3220	D-3	C	C3226	D-4	F	R3416	D-4	F R5000		F		F-3		RX6713	E-5	F
IC50005	D-2	F	CKC44	B-5	F	CKE22	F-4		CL9002	E-5		FL3225	D-2	C	C3227	C-4	C	R3419	F-5	C R5000		F		D-5		RX6714	E-4	F
IC50006	D-2 F-2	F	CKC45 CKC46	B-5 B-5	F	CKE23 CKE24	F-5 F-4		CL9003 CL9004	E-5 D-5		FL3401 FL3402	C-4 D-4	F	C3229	D-4 D-4	C	R3420	E-4 F-6	C R5001		F	1	F-6 E-6		RX6715	E-6 E-6	F F
IC50010 IC50011	F-2 E-2	F I	CKC46 CKC47	в-5 В-4	F	CKE24 CKE25	F-4 F-7		CL9004 CL9005	D-5 D-5		FL3402 FL3403	D-4 E-4	F	C3230 C3231	D-4 D-4	C	R3422 R3423	F-6 E-4	C R5001 F R5001				C-2		RX6716 RX6717	E-6	F
IC50011	F-3	F	CKC47 CKC48	B-4	l '	CKE26	F-7		CL9005 CL9006	E-5		FL3404	E-3	F	C4402	E-2	F	R3424	F-5	C R5001				C-2		RX6718	E-6	'F
IC50014	E-4	C	CKC49	B-4	F	CKE27	F-5		CL9007	D-5		FL3405	E-3	F	C4403	C-2	c	R3425	E-3	F R5001			1.0.000.0	D-3		RX6719	E-6	F
IC50015	D-2	F	CKC51	B-4	F	CKE28	F-6	F	CL9008	D-5	F	FL3406	E-3	F	C4406	B-1	С	R3426	F-5	C R5001	6 D-3	F	RA50012	D-3		RX6720	E-4	F
Transistor			CKC52	B-4	F	CKE29	F-6	F	CL9009	D-5	F	FL3409	E-4	F	C4407	E-1	F	R3427	E-3	F R5001	7 D-2	F	RA50013	C-4	С	RX6721	E-4	F
Q3201	D-4	F	CKC53	B-4	F	CKE30	F-6	F	CL50001	C-1		FL3410	E-4	F	C4408	B-2	С	R4403	F-2	F R5001			RA50014	C-3		RX6722	E-6	F
Q3202	D-4	F	CKC54	B-4	F	CKF1	F-4		CL50002	C-1		FL3411	E-4	F	C4409	E-1	F	R4404	F-2	F R5002			1	D-3		RX6723	E-6	F
Q6702	A-7		CKC55	B-4	F	CKF10	E-7		CL50003	B-1		FL3412	F-6	C	C4410	D-1	F	R4405	E-1	F R5002			1.0.000.0	D-3		RX6724	F-4 F-4	F F
Q6703 Q6704	A-6 A-7	C	CKC56 CKC57	B-4 B-4	F	CKF12 CKF14	C-6 D-7		CL50004 CL50005	B-1 B-1		FL3413 FL3414	D-6 B-7	C	C4411 C4412	D-2 B-2	C	R4406 R4407	F-2 E-2	F R5002			RA50017 RA50018	D-3 C-4		RX6725 RX6726	F-4 F-6	F
Q50001	A-7 A-2	F	CKC57 CKC58	B-4	F	CKF16	D-7 D-6		CL50005 CL50006	B-2		FL3415	B-6	C	C4412	B-3	C	R4408	E-2	F R5002				C-4		RX6727	F-6	'F
Q50001	A-2	F	CKC59	A-4	F	CKF18	D-6		CL50007	B-1		FL3416	F-6	Č	C4414	B-2	c	R4411	D-2	F R5002				C-4		RX6728	F-6	F
Q50003	A-2	F	CKC61	B-4	F	CKF20	E-6	F	CL50008	D-2	F	FL3417	F-5	С	C4415	B-1	С	R4412	D-2	F R5002			RA50021	C-4		RX6729	F-6	F
Q50004	A-2	F	CKC62	A-4	F	CKF23	E-6	F	TL6001	C-7	F	FL3418	D-4	С	C4416	D-1	F	R4413	E-2	F R5003) A-2	F	RA50022	B-4	F	RX6730	F-4	F
Q50005	A-2	F	CKC63	B-4	F	CKF24	D-6		TL6002	C-7		FL3419	D-5	С	C4417	E-1	F	R4414	E-2	F R5003			RA50023	B-4		RX6731	F-4	F
Transistor-		_	CKC64	A-4	F	CKF25	E-6		TL6003	C-7		FL3421	E-4	F	C4418	E-1	F	R4415	E-2	F R5003			1	A-3		RX6732	F-5	F
QR3401	E-7	F	CKC65	B-4	F	CKF26	D-6		TL6004	B-7		FL3422	F-6	C	C4419	E-2	-	R6001	D-7	F R5003			1	A-3		RX6733	F-6	F F
QR3402 QR3403	B-6 B-6	C	CKC66 CKC67	A-4 B-4	F	CKF27 CKF28	E-6 E-6		TL6005 TL6006	C-7 C-7		FL3425 FL3428	F-6 E-3	C	C6001 C9001	C-7 B-3	C	R6002 R6003	C-6 C-6	F R5003 F R5003				C-1 C-1		RX6735 RX6736	F-5 F-6	F
QR9001	E-6		CKC68	B-4	F	CKF29	E-6		TL6701	D-5		FL4401	E-2	Ϊ́Ε	C9003	C-3	ľč	R6004	C-5	F R5003			1.0.0002.	C-1		RX6737	F-6	'F
QR9005	F-6		CKC69	A-3	F	CKF3	E-7		Connector			FL6001	D-6	c	C9004	E-7	_	R6005	B-6	F R5003				C-1		RX6738	F-6	F
Test Point			CKC88	A-6	F	CKF30	E-6		P3401	D-6		FL6002	D-5	С	C9005	C-4		R6007	C-7	F R5003	B A-2	F		C-6		RX6739	F-6	F
CK3401	E-3		CKC93	A-5	F	CKF31	E-6		P6001	C-6		FL6003	C-7	F	C9007	E-7		R6008	C-6	F R5003		F	1	C-6		RX6740	F-6	F
CK3402	E-3		CKC94	A-5	F	CKF32	E-6		P9001	F-3		FL6004	C-7	F	C9011	C-3		R6009	C-6	F R5004				C-6		RX6741	F-5	F
CKA1	A-3		CKC95	A-5	F	CKE34	E-6		P9002	A-3		FL6005	C-6	F	C9013	B-3		R6010	C-5	F R5004				C-6		RX6742	F-5	F F
CKA2 CKA3	A-3 A-3		CKC96 CKC97	A-5 A-5	F	CKF34 CKF35	E-6 E-6		P9003 Diode	A-5	С	FL6006 FL6009	C-7 B-6	l F	C9014 C9015	F-3 F-3	C	R6011 R6013	B-6 B-6	F R5004 F R5004			1	C-6 C-6		RX6743 RX6744	F-5 F-5	F
CKA3 CKA4	A-3 A-3		CKC97 CKC98	A-5 A-5	F	CKF35 CKF36	E-6		Diode D3201	E-2	С	FL6009 FL6010	B-6		C50007	A-3	F	R6013	B-6	F R5004				C-6		RX6744 RX6745	F-5 F-5	F
CKA5	A-3		CKC99	B-5		CKF37	E-6		D3201	E-2	-	FL6011	E-4		C50007	E-2	c	R6015	B-6	F R5004			1	B-6		RX6746	E-5	F
CKA7	A-3		CKC100	B-5		CKF38	D-5		D3203	D-4		FL6012	B-6	F	C50009	A-3	-	R6016	B-6	C R5004				D-6		RX6747	F-7	F
CKA9	A-2		CKC102	B-5		CKF4	C-6		D3204	D-4		FL6013	B-7	F	C50010	E-1		R6017	E-4	C R5004				D-5		RX6748	F-7	F
CKA11	A-2		CKC103	B-5		CKF5	E-7		D9001	F-3		FL6701	E-4	F	C50013	F-2		R6019	C-7	F R5004			1	C-6		RX6749	E-6	F
CKA13	A-2		CKC105	B-5		CKF6	C-6		Crystal Osi			FL6702	A-4	C		D-2		R6020	C-6	F R5004			1	D-5	C			- 1
CKA15	A-2		CKC106 CKC109	B-5	F	CKF8 CL3201	C-6 C-4		X3202 X3401	D-4 E-4		FL6703 FL9004	F-5 B-3	C	C50015	C-2 F-2		R6021	B-5 B-6	F R5005				C-5 B-6	F			
CKA16 CKA18	A-2 A-2		CKC109 CKC110	B-5 B-5	F	CL3201 CL3202	C-4 C-6		X3401 X6001	E-4 B-6		FL9004 FL9012	B-3 F-4	F	C50016 C50018	F-2 B-2		R6022 R6024	В-6 С-4	C R5005			1	В-6 С-5	F			
CKA10	A-2 A-2		CKC110 CKC112	A-4	F	CL3202 CL3203	A-3		Coil	50		FL9012	F-3	F	C50016	E-2	F	R6701	D-5	F R5005				C-6	F			
CKA22	A-3		CKC113	B-7	F	CL3204	A-3		LB3201	C-4		FL9016	F-2	F	C50026	B-2		R6702	D-5	F R5005				B-5	F			
CKA24	B-3		CKC114	A-4	F	CL3205	D-5		LB3202	B-4		FL9020	A-4		C50027	B-2		R6704	D-5	F R5006			1	C-6	С			
CKA25	A-3		CKC115	B-7	F	CL6001	B-6		LB3203	E-2		FL9022	B-3		C50028	E-2	F	R6705	D-5	F RA320				B-6	F			
CKA26	A-3		CKC116	A-4	F	CL6003	C-6		LB3204	B-5		FL50001	D-3	F	Resistor			R6706	E-4	F RA320				C-5	C			
CKA28	A-3		CKC117	B-7	F	CL6004	C-6		LB3205	C-4		FL50002	D-3		R3202	E-4		R6707	E-4	F RA320			1	B-6	F			
CKA30 CKB3	B-4 F-3		CKC118 CKC119	A-4 B-7	F	CL6701 CL6702	F-5 F-5		LB3401 LB3402	C-4 D-4		FL50005 FL50006	D-2 E-2		R3204 R3205	E-3 E-3		R6708 R6709	E-4 E-6	F RA320			1	C-5 B-6	C F			
CKB3 CKB8	F-3 F-7		CKC119 CKC121	B-7 A-4	F	CL6702 CL6703	F-5 F-5		LB3402 LB4402	D-4 E-1		FL50006 FL50007	D-3		R3205 R3206	D-4		R6709 R6710	E-6	F RA320				В-6 С-6	C			
CKB8	D-5		CKC121	D-2		CL6703	F-5		LB4402 LB4403	E-2		FL50007	D-3 D-4		R3211	E-3		R6711	E-4	F RA320				B-6	F			
CKB10	D-5		CKC123	A-4	F	CL6705	F-5		LB9001	F-4		FL50009	D-2		R3212	E-3		R6712	E-4	F RA320				C-6	c			
CKB11	D-5		CKC124	D-2	F	CL6706	F-5		LB9003	F-3		FL50010	B-4		R3216	E-3	С	R6713	E-6	F RA320	9 D-2	: c		C-5	С			
CKB12	F-2		CKC125	A-4	F	CL6707	F-5		LB9005	B-3		FL50011	D-3	F	R3217	D-4		R6714	E-4	F RA321				B-6	F			
CKB14	E-1		CKC126	D-2	F	CL6708	F-5		LB9006	F-2		FL50012	D-3		R3218	D-3		R6715	E-4	F RA321				B-6	F			
CKB17	F-2 F-2		CKC127 CKC128	A-4 D-2	F	CL6783 CL6784	E-5 E-5		LB9009 LB9012	B-3		FL50013 FL50014	D-1 D-1		R3219 R3220	D-4 D-4		R6716 R6717	E-4 E-4	F RA321			RX6034 RX6035	B-7 B-7	F			
CKB19	1 -2	1	UNU 120	<i>D</i> -∠	<u> </u>	OLU104	∟-0	1	LD3012	A-4	U	LJ0014	ו-ט	, i	110220	∪- 4	Г	NOTIF	∟-4	1 INASZI	· C-4		11/10033	וייט			!	
ADDRESS I	NFORM	IATIO	NC																									